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# President's Report

For the year ending
30th June, 1916

1915/1916

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# PRESIDENT'S REPORT

## 1915-16

*To the Governors of the University of Toronto:—*

GENTLEMEN,—I beg to submit the following report on the academic work of the University and University College during the twelve months ended June 30th, 1916.

The total staff of the University and University College numbered 409, of whom 50 were professors, 54 associate-professors, 17 assistant-professors, 68 lecturers and associates (in medicine), and 218 demonstrators, fellows and instructors with sessional appointments. They are distributed as follows:—

| — | Professors. | Associate Professors. | Assistant Professors. | Associates. | Lecturers. | Other Sessional Appointments. |
|---|---|---|---|---|---|---|
| University (Faculty of Arts).... | 18 | 13 | 6 | ..... | 21 | 49 |
| University College ..... | 8 | 9 | 2 | ..... | 8 | 3 |
| Faculty of Medicine ..... | 15 | 23 | ..... | 18 | 3 | 109 |
| Faculty of Applied Science..... | 7 | 5 | 8 | ..... | 15 | 27 |
| Faculty of Household Science ... | ..... | 2 | ..... | ..... | 2 | 4 |
| Faculty of Forestry ..... | 1 | ..... | 2 (1 in Univ.) | ..... | 1 (in Univ.) | ..... |
| | | | Chief Instructors. | Assistant Instructors. | | |
| Faculty of Education ..... | 1 | 2 | 6 | 17 | ..... | 3 |

**The above figures include persons absent on military service.**

In Victoria College there were:

| | |
|---|---|
| Professors (one in University) ..... | 10 |
| Associate Professors ..... | 5 |
| Lecturers ..... | 5 |
| Sessional Appointments ..... | 2 |

In Trinity College there were:

| | |
|---|---|
| Professors ..... | 8 |
| Lecturers ..... | 8* |
| Readers ..... | 3 |

(*1 on leave of absence.)

In St. Michael's College there were:

Professors ..... 9

In the past two or three years the University has suffered severely by the death of several members of the staff. This year it has been sadly and unexpectedly bereaved by the loss of Edward J. Kylie, who at the time of his death

was serving as captain and adjutant to the Grey County Regiment. Never of very robust health he seems to have overtaxed himself by the conscientious performance of military duties, which he undertook at the call of what he deemed the higher patriotism. As an undergraduate in this University, afterwards also in Oxford, then again as professor here, he made for himself by his pure character, fine culture and unbiased judgment an exceptionally large number of devoted friends. The University will long feel his loss.

The following gentlemen resigned their positions:—

J. Squair, B.A., Professor of French; O. J. Stevenson, M.A., D.Pæd., Chief Instructor in English and History in University Schools and Lecturer in Methods in English and History in the Faculty of Education; A. R. M. Lower, B.A., Instructor in the University Schools.

The resignation by Professor Squair of the Chair of French in University College has brought to a close an honourable career of teaching in and devoted service to this University. Professor Squair is a graduate of the University of Toronto and is widely known beyond the Dominion as a French scholar of high rank. He was one of a group of three—the others being Professors van der Smissen and Fraser—who succeeded in placing Modern Languages in their proper place in the Arts curriculum, and was always a thorough teacher. In addition to the conscientious performance of his work of instruction he established a French Prose Prize for the advancement of French and gave a great deal of his time to general university matters, especially to the Alumni Association. He will continue to be connected with the University in the position of Professor Emeritus.

To our deep regret Miss Salter has asked to be allowed to retire from her position as Lady Superintendent of the women students of University College after thirty-two years of service. The position, which was new when Miss Salter entered upon it, required in the occupant the qualities of discretion and sympathy. These Miss Salter possessed in an eminent degree, and she filled her difficult position with unfailing courtesy, faithfulness and good judgment. She is followed with the goodwill of all the women graduates from University College and of the members of the staff.

Leave of absence was continued for the year to Professor P. Toews on account of illness.

The following promotions and new appointments were made during the year:

In the Faculty of Arts, J. A. Craig, M.A., McGill, B.D., Yale, Ph.D., Leipzig, was appointed Associate Professor of Oriental Languages; Barker Fairley, M.A., Leeds, Ph.D., Jena, was appointed Associate Professor of German; R. M. MacIver, M.A., Edinburgh, B.A., Oxon., D.Phil., Edinburgh, was appointed Associate Professor of Political Science; F. A. Hartman, M.A., Kansas, Ph.D., Washington, was appointed Lecturer in Physiology; R. J. Manning, M.A., D.Sc., Bristol, was promoted from a demonstratorship to a lectureship in Biochemistry; A. W. Peters, B.L., Western Reserve, A.M., Ph.D., Harvard, was appointed Lecturer in Biochemistry; and W. T. Jackman, M.A., was appointed Lecturer in Political Science.

In the Faculty of Applied Science, H. H. Madill, B.A.Sc., was promoted from a demonstratorship to a lectureship in Architecture, and W. J. Smither, B.A.Sc., was promoted from a demonstratorship to a lectureship in Structural Engineering.

In the Faculty of Household Science, Miss L. L. Ockley, B.A., was promoted from an instructorship to a lectureship in Household Science, and Miss W. Cruise B.A., was appointed lecturer in the same subject.

In the Faculty of Education, G. M. Jones, B.A., was appointed Chief Instructor in English in the University Schools and Lecturer in Methods in English; C. L. Brown, M.A., D. J. Gray, B.A., and N. L. Murch, B.A., were appointed Instructors in the University Schools.

The following members of the staff delivered courses at Trinity College:—

P. M. Bayne, M.A., Demonstrator in Biology.
S. A. Cudmore, B.A., Lecturer in Political Economy.
N. C. Hart, B.A., Fellow in Botany.
W. T. Jackman, M.A., Lecturer in Political Economy.
R. M. MacIver, M.A., D.Phil., Associate Professor in Political Economy.
M. A. Mackenzie, M.A., Professor of Mathematics.

The total number of students registered in the University in 1915-16 was 3,868, or apart from the Summer Session and Occasionals in Social Service, 3,284, distributed as follows:—

| | |
|---|---|
| Faculty of Arts | 1,853 |
| Faculty of Medicine | 617 |
| Faculty of Applied Science | 345 |
| Faculty of Household Science | 26 |
| Faculty of Education | 437 |
| Faculty of Forestry | 32 |
| Department of Social Service | 252 |
| Summer Session | 353 |
| Registered twice | 47 |

The figures may be further analyzed as follows:—

## Faculty of Arts.

### *University of Toronto.*

| | | |
|---|---|---|
| Candidates for Ph.D. | 29 | |
| Candidates for M.A. | 73 | |
| Occasional Arts Students | 25 | |
| Veterinary Students | 108 | |
| | | 235 |

### *University College.*

| | | |
|---|---|---|
| First Year Undergraduates | 302 | |
| Second Year Undergraduates | 210 | |
| Third Year Undergraduates | 166 | |
| Fourth Year Undergradutes | 174 | |
| Occasional Students | 62 | |
| | | 914 |

*Victoria College.*

| | | |
|---|---|---|
| First Year Undergraduates | 139 | |
| Second Year Undergraduates | 96 | |
| Third Year Undergraduates | 103 | |
| Fourth Year Undergraduates | 87 | |
| Occasional Students | 46 | |
| | | 471 |

*Trinity College.*

| | | |
|---|---|---|
| First Year Undergraduates | 33 | |
| Second Year Undergraduates | 21 | |
| Third Year Undergraduates | 17 | |
| Fourth Year Undergraduates | 18 | |
| Occasional Students | 4 | |
| | | 93 |

*St. Michael's College.*

| | | |
|---|---|---|
| First Year Undergraduates | 64 | |
| Second Year Undergraduates | 26 | |
| Third Year Undergraduates | 31 | |
| Fourth Year Undergraduates | 17 | |
| Occasional Students | 2 | |
| | | 140 |

FACULTY OF MEDICINE.

| | | |
|---|---|---|
| Candidates for M.D. | 3 | |
| First Year Undergraduates | 137 | |
| Second Year Undergraduates | 106 | |
| Third Year Undergraduates | 93 | |
| Fourth Year Undergraduates | 73 | |
| Fifth Year Undergraduates | 96 | |
| Students Returned from Overseas | 22 | |
| Dental Students | 87 | |
| | | 617 |

FACULTY OF APPLIED SCIENCE.

| | | |
|---|---|---|
| Candidates for M.A. Sc. | 1 | |
| First Year Undergraduates | 101 | |
| Second Year Undergraduates | 89 | |
| Third Year Undergraduates | 82 | |
| Fourth Year Undergraduates | 66 | |
| Students of other Faculties | 6 | |
| | | 345 |

FACULTY OF HOUSEHOLD SCIENCE.

| | | |
|---|---|---|
| Occasional Students | 26 | |
| | | 26 |

FACULTY OF EDUCATION.

| | | |
|---|---|---|
| Students registered | 437 | |
| | | 437 |

FACULTY OF FORESTRY.

| | | |
|---|---|---|
| First Year Undergraduates | 1 | |
| Second Year Undergraduates | 14 | |
| Third Year Undergraduates | 6 | |
| Fourth Year Undergraduates | 10 | |
| Fifth Year Undergraduates | 1 | |
| | | 32 |

DEPARTMENT OF SOCIAL SERVICE.

| | | |
|---|---|---|
| Students registered | 252 | |
| | | 252 |

SUMMER SESSION.

| | | |
|---|---|---|
| Students registered | 353 | |
| | | 353 |

Of the 3,868 students, 2,328 were men, and 1,540 were women. The women students were distributed as follows:—

| | |
|---|---|
| Candidates for Ph.D. | 3 |
| Candidates for M.A. | 16 |
| Occasional Students in the University of Toronto | 6 |
| University College | 384 |
| Victoria College | 184 |
| Trinity College | 53 |
| St. Michael's College | 49 |
| Faculty of Medicine | 36 |
| Faculty of Household Science | 26 |
| Faculty of Education | 277 |
| Department of Social Service | 242 |
| Summer Session | 270 |
| Registered twice | 6 |
| | 1,540 |

The numbers examined in the different departments of the University, including those granted standing for military service, were as follows:—

| | | |
|---|---|---|
| Arts: | | |
| Ph.D. | 3 | |
| M.A. | 31 | |
| Fourth Year | 294 | |
| Third Year | 329 | |
| Second Year | 384 | |
| First Year | 407 | |
| Senior Matriculation | 139 | |
| | | 1,587 |
| Medicine: | | |
| M.D. | 1 | |
| Fifth Year | 96 | |
| Fourth Year | 70 | |

| | | |
|---|---|---|
| Third Year | 83 | |
| Second Year | 62 | |
| First Year | 81 | |
| | | 393 |
| Applied Science: | | |
| Professional Degrees | 7 | |
| M.A.Sc | 1 | |
| Fourth Year | 48 | |
| Third Year | 51 | |
| Second Year | 37 | |
| First Year | 63 | |
| | | 207 |

| | |
|---|---|
| Education | 366 |
| Forestry | 10 |
| Law | 20 |
| Degrees in Pedagogy | 21 |
| Pharmacy | 38 |
| Music | 10 |
| Dentistry | 201 |
| Agriculture | 50 |
| Local Examinations in Music | 645 |
| Veterinary Science | 10 |

| The degrees conferred were: | | |
|---|---|---|
| LL.D. (Honorary) | 12 | |
| D.Sc. (Honorary) | 1 | |
| Ph.D. | 3 | |
| M.A. | 28 | |
| LL.B. | 9 | |
| M.D. | 2 | |
| M.B. | 93 | |
| B.A. | 288 | |
| C.E. | 3 | |
| M.E. (Mining) | 1 | |
| M.A.Sc. | 1 | |
| B.A.Sc. | 82 | |
| B.Pæd. | 1 | |
| D.Pæd. | 1 | |
| D.D.S. | 43 | |
| B.S.A. | 50 | |
| B.Sc.F. | 8 | |
| Phm.B. | 36 | |
| B.V.S. | 9 | |
| Mus Bac. | 2 | |
| | | 673 |

In December Mr. Rustom Rustomjee delivered a lecture on "The Place of India in the British Empire."

Again Mr. F. A. Mouré has laid the University under deep obligation by arranging the fourth series of Organ Recitals, in which he himself delivered several

highly appreciated recitals. Those besides Mr. Mouré who took part were: Professor G. W. Andrews, Oberlin Conservatory of Music, Dr. T. Alexander Davies, Mr. Grenville B. Frost, B.A., Mr. James Galloway, A.R.C.O., Mr. Otto James, Mr. H. G. Langlois, B.A., Toronto, Mr. Albert D. Jordan, London, and Professor H. L. Vibbard, of Syracuse University.

At the opening of this session the full effects of the war began to be felt. A greatly diminished enrolment was the first evidence of what was to follow as the academic year ran its course. From every department came the same story of reduced numbers and of the strain under which the students were doing their work. Athletic activities were confined to interfaculty or intercollegiate games and played no large part in the general life, the university grounds being occupied at all hours of the day by companies of men under drill; the usual social interests were lessened or vanished.

The total attendance is at first sight not so much less than in the former year as might have been expected, but an analysis of the figures shows that the number of men students registered in University College was 530, as compared with 604, and in Applied Science 345, as compared with 563, in Forestry 32, as compared with 48 in the preceding year. As is indicated also in the reports of the Principal and the Deans this registration was much higher than the actual attendance became after the middle of the session. Undergraduates enlisted in large numbers, and exemption from examination at the end of the year was given to 352 who had gone on active service. Thus the attendance at the end of the year rather than registration at the beginning shows the drain made by the war on the student body. As regards enlistment, Principal Hutton reports 383 undergraduates from University College. In his Greek classes there were losses through enlistment averaging over 50 per cent. and running as high as 75 per cent. A similar story might be told of the other departments in the College. Victoria and Trinity Colleges suffered quite as severely if, indeed, not more. The Faculty of Medicine retained its normal attendance more nearly than any other. This was mainly due to the fact that the War Office had recommended that students of the final two years should not enlist, but should complete their course in order to serve as qualified medical officers, and partly because it was felt that the increasing demand for such officers in the near future made the call for enlistment as regular combatants less urgent than it was on students in the other faculties. As was to be expected, the faculties of Applied Science and Forestry during the session sent a large quota into active service amounting to 149. The Faculty of Education had a strong company of the Officers Training Corps and gave its share of recruits. At the end of the academic year standing in their years was granted to 268 men on active service; degrees were granted to 84 enlisted men.

The records show that 96 of the staff were on active service. Their names are as follows:—John Andrew Amyot, Robert Gardiner Armour, Paul Balbaud, Louis Auguste Bibet, George Florian Boyer, George Neville Bramfitt, Thomas Gregor Brodie (Ob), Herbert Alexander Bruce, Edward Cecil Burson, Irving Heward Cameron, George Alexander Campbell, William L. D. Carnie, Michele Carlo Emmanuele Catalano, Alfred Hans Waring Caulfeild, Graham Chambers, George Alton Cline, Herbert Ernest Clutterbuck, Charles Norris Cochrane, James Roy Cockburn, Cooper Edward Cole, Alan Freeth Coventry, Malcolm McLachlan Crawford, B. Harold Dickson, George Sharpe Eadie, Oscar Pelham Edgar, Arthur Bertram Fennell, Andrew Almon Fletcher, John Taylor Fotheringham, Robert Edward Gaby, John Stupart Galbraith, John Gordon Gallie, Lachlan Gilchrist, Perry Gladstone Goldsmith, Andrew Robertson Gordon, Duncan Archibald Lamont Graham, Velyien

Ewart Henderson, William Belfry Hendry, Samuel Ross Delap Hewitt, Robert Home, Cyril G. Imrie, J. Powell Jones, Kenneth Hay Kingdon, Frank Boteler Kenrick, Edward Joseph Kylie (Ob), William Robert Lang, James Miles Langstaff, Arthur d'Orr Lepan, Thomas Richardson Loudon, Gladstone Wilfred Lougheed, Arthur Reginald Marsden Lower, Arthur Wellesley McConnell, Donald McGillivray, Alexander John Mackenzie, John Joseph Mackenzie, Patrick Walter Hughes McKeown, John Harris McPhedran, Henry Allen McTaggart, Charles Stanley McVicar, Samuel John Newton Magwood, William John Ogilvie Malloch, Henry Gordon Manning, Frederick William Marlow, Charles Vincent Massey, Percival Keith Menzies, Horace Owen Merriman, James Sims Mitchell, Ezra Henry Moss, John Henry Mozley, George Henry Needler, Francis Owen, Frank Stanley Park, Harold Campbell Parsons, Robin Pearse, George Rowe Philp, Alexander Primrose, Thomas Bedford Richardson, James Alexander Roberts, David Edwin Robertson, Lawrence Bruce Robertson, John Daniel Robins, Gilbert Royce, Robert Dawson Rudolf, Edward Stanley Ryerson, Wallace Arthur Scott, Noble Carman Sharpe, Harry James Shields, David King Smith, George Malcolm Smith, George Stewart Strathy, Ross Taylor, Malcolm William Wallace, William Stewart Wallace, Benjamin Philp Watson, Ralph Hodder Williams, George Ewart Wilson, Clarence Richard Young.

The records of enlistment contain the names of 1,736 graduates, 1,368 of whom were officers and 368 in ranks; 1,268 undergraduates, 557 officers and 711 in ranks; 12 in Y.M.C.A. work at the front, 11 graduates and 2 undergraduates, in all 3,016. There are 113 who have fallen. Their names are:—

Henry Harold Allen, Hubert Gordon Allan, Charles Laidlaw Anderson, Frederick Charles Andrews, Gordon Stewart Andrews, Panayote Percy Ballachey, Alfred Carbert Bastedo, William George Henry Bates, Gerald Edward Blake, Thomas Gregor Brodie, George William Bruce, Leo Buchanan, Duncan Frederick Campbell, Robert Alexander Rankine Campbell, Warren Knight Campbell, James Russell Chamberlin, Arthur Willoughby Chesnut, Philip Fred Chidley, Allen Charles Mackenzie Cleghorn, Charles Penner Cotton, Russell Andrew Cross, Gordon Willson Crow, Carl deFallot, Kenneth Brown Downie, George Gordon Duncan, Frederick Lawrence Eardley-Willmott, Judson Harold Ellis, Shirley Duncan Ellis, William Laurance Evans, James Stephenson Fleming, Finlay David Fraser, Harry William Frogley, George Gordon Galloway, Francis Egmont Gane, John Ure Garrow, Paul Archibald Gillespie, George Clarence Gliddon, Thomas Leon Goldie, Henry Russell Gordon, Thomas Seton Gordon, Oswald Wetherald Grant, Hugh Alexander McKay Grasset, Henry Greenwood, Daniel Galer Hagarty, David Elliot Haig, Henry Arthur Harding, Thomas Leslie Harling, Joseph Grant Helliwell, Maurice Russell Henderson, John Emerson Hill, Henry Boyd Hodge, Herbert Spencer Holcroft, Fred Holmes Hopkins, Asa Milton Horner, Chester Hughes, George Leycester Ingles, Oscar Irwin, Robert Crawford Jamieson, Trafford Jones, Thomas Ewart Kelly, Stuart Kennedy, Herbert Norman Klotz, Edward Joseph Kylie, Norman Lawless, Alfred Edward Lawton, John Gordon Lumsden, Hugh Edward McCutcheon, Archibald Walter Macdonald, Alister Munro Mackenzie, George Lawrence Bissett MacKenzie, William Stewart McKeough, Howard James MacLaurin, Dugald Black McLean, Edgar Harold McVicker, Maurice Irving Machell, John Reginald Maguire, Maurice Edward Malone, Malcolm Smith Mercer, Herbert Stanley Monkman, Arthur Edward Muir, Harold Heber Owen, Henry Errol Beauchamp Platt, Roy Irvine Poast, Howard Primrose Primrose, Arthur Harper Qua, George Ernest Revell, Ronald McKenzie Richards, James Ernest Robertson, George Crowther Ryerson, Charles Edward Sale, Wesley George Shier,

Joseph Cuthbert Shipton, Colin Simpson, Ernest Alroy Simpson, Arthur William Tanner, Geoffrey Barron Taylor, Ross M. Taylor, Arnold Munro Thurston, Norman Ewart Towers, Kenneth Marsden Van Allen, George E. Vansittart, Frederick William Walsh, Robert Edward Watts, James Symington Wear, Edward Alfred Webb, Maurice Fisken Wilkes, William Hartley Willard, Chester Matthew Willey, George Knox Williams, William Taylor Willison, Harold Mackenzie Wilson, Norman James Lang Yellowlees, and Martin C. de Bude Young.

The following eight are missing:

Arthur Stuart Anderson, Joseph Alburn Bassett, John Harvey Douglas, Guy Pierce Dunstan, Victor Archibald Ferrier, Angus Douglas Graham, Melville Elliot Lobb, Harold Verschoyle Wrong.

The enlistment has been growing and the roll of the fallen is lengthening rapidly.

The work of the Officers Training Corps was continued, and though, as was to be expected, the enrolment was not as large as in the previous year, it was nevertheless very good. At the inspection held at the close of the Easter Term 791 members were declared efficient and 117 members were granted proficiency Certificate A, i.e., lieutenant's qualifications. During the past six months 85 candidates for Imperial Commissions were sent to England and accepted by the War Office. On September 1st, 1916, as far as could be ascertained, 1,278 members of the corps were on active service.

A committee was appointed early in the session to impress upon the students the seriousness of the issues involved in the war. For this purpose the staff was asked to keep the situation before the minds of the students; short, signed articles were inserted in "Varsity," and the undergraduates of University College and the faculties were addressed in groups by the President and members of the staff.

An overseas unit of the Officers Training Corps was authorised, with Professor G. H. Needler as Commanding Officer. Professor M. W. Wallace also is assisting in this unit. Also an Artillery Battery, No. 67, was authorised to be officered by graduates of this University, who are recommended to the Minister of Militia by the Commanding Officer of Military District No. 2. The purpose aimed at in securing the establishment of both these units was to afford an opportunity for undergraduates, and those who might desire to join such a unit, to get training in familiar environment before taking their commissions, or to serve in the artillery in congenial company. It was believed, as has also proved to be the case, that by the presence of these two units in the University a ready opportunity of enlistment would be taken advantage of by many students. The position of these two units is, Officers' Company enrolled 168, of whom 75 have gone overseas; the Artillery Battery, over 200 men enlisted since the spring, nearly all of whom have at the time of writing gone overseas in drafts. It is hoped that during the coming session the value of these units will continue to be manifested.

The University also played an important part in the work of instruction connected with the various military schools, especially the Provisional School of Infantry under Lt.-Colonel Lang and the School of Musketry under Major Massey, who had associated with them members of the university staff. The grounds and several buildings of the University were used for the purposes of this instruction.

It is particularly gratifying that No. 4 Canadian General Hospital (University of Toronto) has done excellent work. At the request of the War Office the staff willingly undertook the difficult duty of service in Salonica, arriving there in November, 1915, under peculiarly trying climatic conditions, with the earliest

troops and when the need was very pressing. During the earlier part of the winter the hospital was often crowded to excess, but by hard effort and team work the staff not only did all that they were asked to do, but won high commendation from those in authority for the character of their work. By their medical and surgical skill, the conduct of their laboratories and their loyalty, the members of the staff have brought great credit on themselves and on the University.

The success of the hospital is partly due to its splendid equipment, for which the Ladies' Supply Association and a large number of friends are to be thanked. I may here briefly outline the work carried on by the Hospital Supply Association under the direction of the ladies of the University. Since the beginning subscriptions, fees and bank interest amounted to $50,963. Disbursements have totalled $45,510. The packing between April, 1915, and October, 1916, amounted to 1,328 large cases of hospital supplies, 667 going to No. 4 Hospital, 654 to the Canadian Red Cross, and seven cases of socks to the Secours National. Of sheets there were 8,751, pillowcases 14,860, towels 44,804, pyjamas 7,575, pairs socks 11,802, surgical shirts 12,615, bedjackets 1,913, dressing gowns 528, grey flannel shirts 942, work clothes 21,540, surgeons' gowns 845, masks 276, surgical nurses' caps 290. Bandages alone filled 84 cases, and besides those mentioned thousands of articles have been despatched—pillows, quilts, rugs, hotwater bags, Testaments, etc. In addition the Association has given the Canadian Red Cross 42 large cases of factory-made bandages. There was also a total of 1,146,575 pieces of surgical supplies, including pads, compresses and sponges. Gifts of time, material and money came from many sources—churches and church societies and organizations all over the country—and there was a prompt and generous response from the smaller towns and the country districts.

Other generous donations to the hospital were: Contributions for laboratory and other equipment, $44,302.17; the Westminster Chapter, Imperial Order Daughters of the British Empire, Cleveland, Ohio, $9,062.50, besides the gift of $40,000 from the Fulford estate, which I reported last year.

The thanks of the University are due to all those who have taken a share in the equipment and maintenance of No. 4 Hospital.

In several other military hospitals in France and in England members of the University staff have rendered valuable service.

The manufacture by our Biological Products Laboratory of tetanus antitoxin for the Militia Department and the War Office was continued through the past year, and at the time of writing over $15,000 worth has been provided at cost. I wish to direct attention to Dr. Fitzgerald's report, which outlines the large way in which the University, through this laboratory, has co-operated with the Provincial Board of Health.

As will be seen in the report of the Dean of the Faculty of Applied Science a number of the staff of that faculty were employed for part of their time in the work of munitions. Valuable investigations were also conducted by Professor McLennan in the Physics Laboratory for the War Office, and in Physiology by Professor Brodie in investigating the physiological effects of wounds on the respiratory processes.

Also the work of the Speakers' Patriotic League, which has had a far-reaching effect on recruiting, was conducted in the University under the direction of Dr. A. H. Abbott, who for this purpose was relieved of some of his regular academic duties.

In October, 1915, when the special contribution was being raised for the British Red Cross Fund, the University, its Colleges and Hospitals contributed

$7,339, of which $3,935 came from the staff and $3,404 from the students. Also the staff of the University, its Colleges and Hospitals, contributed during the campaign for the Toronto and York County Patriotic Fund in January the sum of $12,453.

During the year M. and Madame Ledoux, who came to us from the University of Brussels, were the guests of the staff of the University and formed a large circle of friends.

The only matter in connection with the Faculty of Arts to which I shall refer is the arrangement as to specialist courses, which has been completed, and is inserted in the Calendar for 1916-17. The requirements for the specialist courses of the Department of Education involve difficult and complicated questions because not only has the Department to take into account the honour courses of this University, but also of the other Universities of the Province. It is, therefore, a satisfaction that a clear understanding has now been reached in this matter.

In the Faculty of Medicine the work of the year was conducted under difficulties on account of the absence of a large number of the staff on active service. This reduction in the staff was felt especially when, in response to a request from the War Office, it was decided to hold a session for the fifth year, beginning on May 1st, 1916, immediately on the close of the winter's work. It was undertaken in order to allow the graduates to enlist for service in December, 1916.

The extension of the medical course from five to six years, which has been under consideration by the Faculty for some time, was recommended to the Senate before the close of the academic year and the proposal has since been adopted, to come into effect in 1918. The demand for the lengthening of the course is due to the advance of medical education. Hitherto the five years have been divided between the preliminary sciences and clinical instruction, two and a half years for each; but the teachers in both sections have long been complaining that they have too little time for their subjects. The lengthened period has been required for several years in the larger medical schools of the United States, and already the University of Manitoba has adopted the six years course. McGill University also is ready to make the advance along with us. The first year of the new course will be devoted entirely to the pure sciences—Physics, Chemistry and Biology—together with English and perhaps one language.

The appointment by the Provincial Government of a Commission on Medical Education was an important event in the medical world. The President of the University and the Dean of the Faculty of Medicine, together with Dr. Lash from the Board of Governors, appeared before the Commissioner, Mr. Justice Hodgins, and outlined the equipment, standards and aims of the Faculty of Medicine, and presented the case for granting greater recognition to our degree in medicine.

Though the numbers of the Faculty of Applied Science have been greatly reduced and less space was required than in recent years, especially in the Department of Drawing, insistent demands continue to be made for improved conditions in the Departments of Applied Mechanics and Electrical Engineering. The old building is cold and very inconvenient, and in fact is so filled with apparatus that in some rooms even small groups of undergraduates are crowded. With the increase of students after the war the state of the building, to which attention has been drawn for many years, will demand immediate consideration. I agree with the suggestion made by the departments interested that the Governors should authorise the preparation of plans for a new building.

The Ontario Government has asked Professor Guess to undertake work in Metallurgy and has provided the installation of a special furnace for this purpose.

It is probable that more investigation of this kind may be undertaken in the near future.

I should like to call attention to the remarks in the Dean's Report as to the relation between this faculty and the movement for the greater application of science to industry. The essentials for this extremely important development, which is attracting great attention in Britain, are more laboratory space and some increase in the staff. Much can be done in the University without a very large expenditure of money.

In the Faculty of Education there has been a large attendance, 437 being registered. Every year a number of those registered take their work extramurally, in 1915-16 sixty, in 1914-15 thirty-five. This large attendance puts a very heavy strain upon the Dean and the members of the teaching staff. Additions should be made to this faculty as soon as possible. Another urgent requirement for this faculty is the equipment of a house in which the women students can have a centre for their social and academic activities, what is usually called a union. The three hundred young women in this faculty have no place, except a basement, in which even to take their lunch, and there is not a woman on the faculty or in the buildings who can in any way give them advice or help. When it is borne in mind that the great majority of these young women come to the city merely for one year, are without friends, have to find rooms and board at low cost, and return at the end of eight months to their towns or villages to teach the youth of this province, it becomes evident that this university has been neglecting a most important part of the education that is necessary to fit them for their duties as teachers. At comparatively small cost the house which is now closed and is an eye-sore, a source of danger from fire, and is rapidly becoming more dilapidated, could be made into excellent quarters for the purpose of a union, and a suitable lady could be secured who might be resident and also a member of the staff. A small fee from each student would go a long way to meet the expense.

During the year an important development was carried out which will certainly tell upon the future of this university, in the reconstitution of a Board of Postgraduate Studies, and the establishment of five new research fellowships. Much time was occupied with the drawing up of regulations and the definition of courses, which have now been set forth in the calendar on graduate work issued for the first time at the close of the academic year. Through the liberality of Sir Edmund Osler, who has offered two scholarships, Mr. J. W. Flavelle and Colonel R. W. Leonard, who have each offered one, of the annual value of $500, an excellent commencement in the way of encouraging graduate work has been made. These fellowships are to be offered in the first instance to students from outside Ontario, especially from the West. The Toronto Alumni in the United States have also provided for the coming year a fellowship of like value in Biochemistry, and the thanks of this University are due to them for their continued interest in their Alma Mater. The Mackenzie Fellowships in Political Science have been increased to $500 each and made tenable by graduates of other universities. This is but a beginning. After the war we may hope to have the number of these fellowships increased so that the University may draw to itself many of the most promising graduates of other Canadian universities to pursue their advanced work here. In addition to scholarships, facilities for instruction must be provided or increased, especially in the development of the library and the increase of the staff in some of the departments. As I said in my last report, this graduate work is not only beneficial to the life of the university, but is of great national value in educating

in this University of an old Province many who would otherwise find themselves under the necessity of going to the United States, probably in most cases not to return. It will create new ties between East and West, Old and New. I hope to be able to present a report next year of the work carried out by the new Board.

Again this year evidence has been afforded that the University is not without its benefactors. Colonel Albert E. Gooderham has bought 50 acres of land, and under his own careful supervision has erected splendid laboratories for the manufacture of sera and antitoxins, which on completion are to be handed over to the University. I would refer to Dr. Fitzgerald's report in the Appendix for the full description of this munificent gift. Mrs. H. D. Warren has also continued her donation of the salary of the Director of Social Service. The late Mrs. Massey Treble has engraven her name still more deeply upon this university by the legacy of $100,000 for the support and development of the Department of Household Science. In past years mention has been made of the Medical and Surgical Research Funds, to which Sir John Eaton, Sir Edmund Osler, Colonel R. W. Leonard, J. L. Englehart, Esq., and Dr. George E. Cook have made handsome contributions, and I have already referred to the four new portgraduate fellowships established at the close of the year. The report of the work of the Medical Research Fund will be found in the Appendix. Mrs. Balmer has also given $1,000 to institute in University College a scholarship in the first year science course in memory of her daughter, who was a distinguished graduate of this university. Also a legacy of $25,000 has been received from the E. C. Walker estate towards the erection of a men's residence in the University. In addition to these gifts there is a constant stream of donations flowing into the Royal Ontario Museum, of which this University and the Government of Ontario have joint control.

The returns of the Bursar are an evidence of the rigid economy that has been practised by the staff of the University during the past year. Fortunately those in charge of several of the scientific departments had laid in good supplies of glass and chemicals, and by their sparing use, partly also by reason of reduced numbers, they were thus saved the necessity of making large purchases when the prices, owing to war conditions, were unusually high. The only department which may suffer permanently from reduction is the library. It is false economy to reduce greatly the purchase of books; a good library is at the basis of all research. In the immediate future this country will find it necessary to foster investigation, which, however, will be dependent upon the equipment of the centres in which it may be conducted.

A special convocation was held in September, 1916, for the purpose of celebrating the one hundred years of peace between Great Britain and the United States by conferring the honorary degree of LL.D. upon the Hon. Joseph H. Choate, President Nicholas Murray Butler, William B. Howland, Esq., William Church Osborn, Esq., Alton Brooke Parker, Esq., and John A. Stewart, Esq. The occasion was made memorable by the address of the Hon. Mr. Choate and by the feeling of goodwill given expression to by the other visitors.

The second annual meeting of the Universities of the Dominion was held in Montreal and was well attended by representatives from nearly all the universities. The meetings lasted for a day and a half and the time was devoted chiefly to discussion on the medical curriculum, postgraduate work, and the expansion of science in its application to industry. A strong national spirit is being created in these universities, and the effort is being made to co-ordinate their work so that they may become more mutually helpful and that students may readily pass from one to the other and have the opportunity of receiving the highest possible training

in our own country. A committee was appointed to inquire into the possibility of entering into such relations with the Universities of Britain and France as will draw our universities to them even more closely than in the past.

All of which is respectfully submitted.

R. A. FALCONER,
*President.*

October 21st, 1916.

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## APPENDIX A.

(1) Report of the Principal of University College.
(2) Report of the Dean of the Faculty of Medicine.
(3) Report of the Dean of the Faculty of Applied Science.
(4) Report of the Dean of the Faculty of Forestry.
(5) Report of the Dean of the Faculty of Education.
(6) Report of the Librarian.
(7) Report on University Extension Work.
(8) Statement regarding the Biological Museum.
(9) Statement regarding the Geological Museum.
(10) Statement regarding the Palæontological Museum.
(11) Statement regarding the Mineralogical Museum.
(12) Report on the Medical Research Fund.
(13) Report of the Director of the Antitoxin Laboratory.
(14) Report of the Director of Courses in Social Service.
(15) Report of the Physical Director.
(16) Report of the Superintendent of the Dining Hall.

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### (1) REPORT OF THE PRINCIPAL OF UNIVERSITY COLLEGE (PROFESSOR HUTTON).

The attendance of men at University College this year, both before the Session 1915-16 began and since it began, begins to show the effect of the war in the only way in which the College can honestly testify to it, and in the only way in which, all things considered, it is desirable that it should so testify. The numbers of men registering last September fell off by some two hundred from the numbers of the previous September, and of those actually then registered the numbers of those still continuing to attend is falling daily; each day sees further names withdrawn for transference to some battalion at the front or at some other Canadian camp or for transference with a commission to a training camp in England or for immediate service in the trenches and with the artillery.

The war preoccupies every one, mind and body, and preoccupies even our buildings. The academic record of the year is therefore uneventful; while the social record is a blank. The actual numbers of graduates and undergraduates from the College already at the front at the present date may be estimated somewhat roughly as follows:—

*Graduates*:

| | | |
|---|---|---|
| Officers | 238 | |
| In ranks | 113 | |
| Total | | 351 |

*Undergraduates*:

| | | |
|---|---|---|
| Officers | 199 | |
| In ranks | 184 | |
| Total | | 383 |
| | | 734 |

The deaths number 39; the Roll of Honour includes also the following distinctions:—

*C.M.G.*

Col. J. T. Fotheringham ..... B.A. (U) 1883
M.D., C.M. 1891
Lt.-Col. G. G. Nasmith ..... B.A. (U) 1900
Ph.D. 1903

*C.B.*

Brig.-Gen. M. S. Mercer (Killed) ..... B.A. (U) 1885

*D.S.O.*

Capt. F. Morison ..... B.A. (U) 1900
Lieut. T. D. Hallam ..... Arts (U) 1906-08

*Military Cross.*

Major P. P. Acland ..... B.A. (U) 1913
Capt. J. E. Hahn ..... Arts (U) 1909-13
Capt. V. F. Stock ..... B.A. (U) 1912
M.B. 1915
Lieut. J. C. Auld ..... Arts (U) 1917
Lieut. P. W. Beatty ..... B.A. (U) 1911

*Cross de Guerre.*

Lieut. E. Peplar.
Cpl. C. E. Rochereau de la Sabliere.

*Knighted by King of Italy.*

Chevalier W. E. Doherty ..... Arts (U) 1911

*Mentioned in Despatches.*

Maj-Gen. M. S. Mercer (killed) ..... B.A. (U) 1885
Col. J. T. Fotheringham ..... B.A. (U) 1883
M.D., C.M., 1891
Lt.-Col. J. J. Creelman ..... B.A. (U) 1904
Lt.-Col. G. G. Nasmith ..... B.A. (U) 1900
Ph.D. 1903

Captain J. E. Hahn .....Arts (U) 1909-13
Capt. A. C. Ryerson .....Arts (U) 1917
Lieut. S. S. Burnham .....B.A. (U) 1911
Lieut. T. D. Hallam .....Arts (U) 1906-08
Lieut. R. G. Hamilton .....Arts (U) 1912-14
Lieut. M. E. Malone (killed) .....Arts (U) 1917

As for academic changes, Professor Craig has replaced Professor Benzinger in the department of Arabic; and Professor Fairley (from one of the newer Universities of the North of England and from Edmonton) has succeeded Professor Mueller; the teaching in these departments has not suffered for the change.

It has not yet been found possible to replace the gap left by the death of Professor Stevenson: this is at the moment our crying academic need: other needs are at once social and academic at the same time.

As Hart Hall approaches completion, the need of similar advantages for the women students of University College is making itself felt more urgently; there is an ever-increasing body whose numbers and increase are unaffected even by this war, and for whom Queen's Hall, with its roll of 90 names, is quite inadequate.

The College needs for its women, halls and rooms for debating, for reading, for music, and for rest and needs still more the presence at the head of such a place of a woman who can not only, if necessary, hold a position on the staff, but who shall also have the time and the gifts and the training, and experience qualified to make her of use to the women students in the indirect and therefore the all-important interests of their University life, outside the lecture rooms and lecture halls. Little or nothing can be done at present on the scale of Hart Hall, but a beginning should be made for the women, and a good Dean in charge of a much smaller place with a good spirit animating it will do as much and more than bricks and mortar. I subjoin the usual tables showing the distribution of students among the different courses.

(2) Report of the Dean of the Faculty of Medicine (Dr. C. K. Clarke).

The events of the year have been largely complicated by the military situation and the staff has found it extremely difficult, reduced as it is in numbers, to meet every condition as satisfactorily as could be wished. Possibly if the number of students had been reduced, as expected, the difficulties would not have been so great, but as the registration was 527 the reduction from the average was scarcely noticeable. Members of the staff have made the sacrifice cheerfully and willingly, realizing that in this way they were able to do their bit.

As you are aware, the military authorities asked us to put on a special session for the Fifth Year and that commenced on May 1st. This means that practically the whole staff has to do double duty in order to equip a number of young graduates sufficient for the demands of the War Office.

The undergraduates in Medicine on active service numbered 138, but 42 students of the Fourth and Fifth Years have been returned by the Imperial War Office to complete their courses in Medicine. So far, casualties have been comparatively slight. One has been killed and a number wounded, but the wounded as a rule have done well and made good recoveries. Our students are to be found in every branch of the service, from aviation corps to submarine crew. Lieut. H. H. Owen, who was killed in action on January 30th, was recommended for the D.S.O., and was mentioned in the official despatches seven times for conspicuous bravery. A

Second Year student, J. E. McGillivray, has been recommended for the D.C.M. for his bravery and conduct recently at St. Eloi.

The great majority of the graduating class of 1915 have gone overseas, and of the class of 1916 nearly all have qualified for military service and will go to the front when called upon.

The death of Captain Norman Yellowlees, who was with the University Hospital at Salonica, is deeply regretted.

The question of a six years' course in Medicine has occupied the attention of the Faculty very constantly during the year, and it is more than evident that the five years' course, as carried on at present, does not meet all the requirements; the Third Year especially is the subject of a great deal of well-deserved criticism. It becomes more and more evident that it will be much better for both student and University when the student comes to us better prepared in the preliminary sciences, and the whole subject of Medicine has so developed that it is useless to endeavour to prepare men properly in less than six years. The consensus of opinion leans in this direction, and if we are to live up to the best ideals we shall have to adopt a six years' timetable, just as soon as this can be put in force without disturbing the work of the High Schools and Collegiate Institutes.

The members of the staff have shown the greatest devotion to duty in the University, and while the majority of them would willingly and cheerfully go to the front, they have recognized the necessity for staying home to carry on the preparation of the students for their stern duties across the sea.

(3) Report of the Dean of the Faculty of Applied Science and Engineering (Dr. W. H. Ellis).

I beg to submit the following report on the work of the Faculty of Applied Science and Engineering during the past academic year.

The number of students registered in the Faculty in 1915-16 was 341, distributed as shown by the following table:—

| | |
|---|---|
| First Year Undergraduates | 102 |
| Second Year Undergraduates | 89 |
| Third Year Undergraduates | 84 |
| Fourth Year Undergraduates | 66 |
| | 341 |

Of these, 119 completed the year and 134 enrolled for active service overseas. Three members of the permanent staff enrolled for active service overseas: Asst. Prof. J. R. Cockburn, Captain 170th Battalion, C.E.F.; Asst. Prof. T. R. Loudon, Capt. and Adjt., No. 1 Construction Battalion; Asst. Prof. A. Wellesley McConnell, Capt. and Adjt., 116th Battalion, C.E.F. Of the sessional appointments the following are on active service:—

*Lecturers.*

R. H. Hopkins, Lieut. and Sig. Officer, 39th Battalion, C.E.F.
J. M. Langstaff, Lieut., 75th Battalion, C.E.F.
J. W. Pickup, Lieut., 220th Battalion, C.E.F.

*Demonstrators.*

J. S. Galbraith, Lieut. and Asst. Adjt., 123rd Battalion, C.E.F.
G. H. Hally, Gunner, 26th Battery, C.F.A.
H. O. Merriman, Flight Sub-Lieut., Royal Naval Air Service.
A. L. Steele, Canadian Engineers, 4th Brigade Signal Station.
G. K. Williams, Flight Sub-Lieut., Mechanical Supt. of Air Training School, Detling, England.
W. J. T. Wright, Lieut., 67th Depot Battery, C.F.A.

In addition to these, Capt. C. R. Young, Asst. Prof. of Structural Engineering, and Capt. H. H. Madill, Demonstrator in Architecture, have been appointed upon the staff of the School of Instruction (Infantry) M.D. No. 2.

Regarding the C.O.T.C., at the beginning of the session 278 enrolled, which number was reduced during the session through enlistments, etc., to 176 at the time of inspection, and those were all declared efficient. Thirty-five students took the examination for certificate "A," of whom 24 were successful. Thirty-three Applied Science students were accepted as candidates for commissions in the Imperial Army, in accordance with the offer made by the War Office in November last. Sixteen students hold commissions in C.E.F. Battalions.

Prof. Haultain desires to call attention to the mining engineers of the class of 1914. There were twenty-five men in this class; of these nineteen have been on active service. Four of these have died at the front. Of the six not on active service, one is in Arizona, and two in South America. For the remaining three we have no address.

Last week, in Ottawa, Col. Maunsell addressed about sixty officers at the Training Depot for Canadian Engineers, asking for those who could qualify and volunteer to join at once a tunnelling corps in France. Six men volunteered, five of whom were our men.

I am enclosing the reports of the Heads of Departments.

During the year that has passed, as during previous years, the Faculty of Applied Science has devoted its energies to what is beyond all question its first duty, the preparation of young men to fill vacancies in the junior ranks of the Engineering, Chemical, Mining and Metallurgical professions, with such a training as may as far as possible render them useful to their employers and enable them to take advantage of their opportunities for improvement and advancement in their calling.

During the thirty-nine years this Faculty has been in existence, first as the School of Practical Science, and afterwards under its present designation, it has trained and sent out some 1,500 graduates. The responsible positions held by these graduates in various parts of the world, and in all branches of engineering, as well as the staunch loyalty which they have always evinced and continue to evince to their Alma Mater give me the right, I hope, to claim for the Faculty in the performance of this their first duty some measure of success.

During these years this Faculty, with a staff barely sufficient to fulfil this single function, has nevertheless kept in touch with the industrial and business world and advised and assisted in manufacturing and industrial problems, as well as made contributions to the literature of both pure and applied science. The varied nature of these investigations you are already familiar with from the report made to you recently by the Council on this matter.

It seems to me, however, that the time has come when something more may be demanded of this Faculty. Unless it takes up an aggressive attitude in exerting itself to extend the bounds of Applied Science, it cannot hope to maintain the

honourable place which it has won among Engineering Schools. Such schools in our own and other countries have definitely entered upon an avowed policy of fostering and encouraging research with the view of extending the area of the organized knowledge of nature in order to place it at the disposal of industry. Such a step in advance is, however, quite impossible without increased financial support from some quarter or other. The members of our staff cannot contribute more than they are doing to scientific investigation unless special provision is made for this purpose. Research work involves such laborious, time-consuming operations, requires such continuous concentration and makes such demands upon the nervous energy of the investigator that it is vain to expect results of value from such laboratory work as can be squeezed into odd hours between the regular duties of teaching, when such duties claim as much of the investigator's time as has been, and is the case, with the teaching staff of this Faculty. A study of research laboratories the world over, and contact with investigators in all countries emphasizes the special nature of research work, and the necessity, if much of real value is to be accomplished, of relieving those who perform or conduct such work from much of the routine work of lecture and laboratory teaching. I would, therefore, beg to urge that as soon as possible a Research Department, or, as I would prefer to call it, a School of Engineering Research, be established within the Faculty of Applied Science and Engineering, whose avowed function would be scientific investigations on problems bearing on or suggested by the industries of the country. Such an organization would possess many advantages.

1. It would foster the scientific atmosphere, which would have very beneficial results both on the undergraduate students and the teaching staff.

2. It would provide research work for graduate students in all branches of engineering, and thus retain within the university men who otherwise would go to foreign universities for postgraduate study and work.

3. It would be of direct assistance in the development of the resources of our country in the establishment of new industries and in the development of old ones.

In this way the engineering and industrial and business world would be brought closely into co-operation, and such an organization would be worthy of financial assistance from both private individuals and large corporations.

For the realization of this ideal greatly increased laboratory space and equipment will be ultimately required and ought to be planned for from the outset. A new Engineering building for the Departments of Electrical Engineering and Strength of Materials is and has been for some time a crying need, as pointed out again and again in the reports of my predecessor.

I have repeatedly urged the need of a laboratory of Technical Chemistry; and the situation of the University in the centre of the great clay industry of Canada calls for a laboratory of Ceramic Engineering.

In my opinion, however, in consideration of the times in which we are living and the condition of public opinion, it would be a mistake to wait for what we should like to have before beginning to do what we can with resources within our command. Such a start could be made if we could have a few (say seven) research assistants at salaries of $1,500 to $1,800, and if a fund of (say $5,000) to be placed at the disposal of a committee of the Council to defray the cost of special apparatus and supplies required in research.

These research assistants would act in some instances as investigators, working under the direction of the members of the staff: in other instances as lecturers and teachers, thus securing to those members of the staff who wish, themselves, to per-

form research a partial liberation from teaching duties. To obtain results from such an organization it must not be forgotten that time is essential. Facts all go to show that months and years are required in order to secure success, the more important is an early start, and therefore it seems to me important that such a new department should be inaugurated without delay, if possible at the opening of next session, so that work may be planned by the staff and the services of capable men secured.

(4) Report of the Dean of the Faculty of Forestry (Dr. B. E. Fernow).

The registration at the beginning of the session showed a considerable reduction below the number of the previous year, namely 32, and of these only three new students registered, the others being students previously in attendance. At the end of the session, however, the number had dropped to ten, the reduction being due mostly to enlistments.

Of the nine members of the fourth year, one enlisted within the first month, six remained for the first term or longer, and two to the end of the session. The six who enlisted after a half-year's work, all being first-class students, the Faculty decided should receive their degree *honoris causa,* it being understood by them that after their return, they would voluntarily make up their deficiencies with the aid of the Faculty. The same condition was imposed upon those of the lower classes enlisting (five), who had attended at least one term, namely, giving them standing as far as time was concerned for the whole year, but requiring that they work up the deficiencies in professional courses of their year with special assistance of the staff.

The degree was also conferred upon one member of the class of 1913-14, who had been conditioned, but had since enlisted.

It may be of historical interest to state that of the 89 names of regular students at one time registered in this Faculty since its organization nine years ago, graduates and undergraduates, not less than 60 per cent., as far as known, appear at present writing as enlisted for overseas service. In this connection, it may be also worth noting that word of the value of the course in First Aid inaugurated in this Faculty four years ago, came from the front, and that hence a repetition of this course was secured from the Faculty of Medicine.

No changes of any importance have taken place in the curriculum, but as foreshadowed in my last report, a slight increase in entrance requirements for the coming year was inaugurated, namely, raising the passing mark in English and Mathematics to 50 per cent. on each paper and 60 per cent. in each subject. This has been done with the hope of securing a better class of men. As explained in last year's report—and the difficulty has been accentuated during the year through enlistments of older graduates—the Dominion Forestry Branch finds not sufficient leadership developed among the graduates, and since much of the present forest work is crew work, it has been difficult to employ even undergraduates for summer work for lack of leaders. The only way in which the Faculty can meet this need appears in the increase of entrance requirements—indeed, the course should be a postgraduate one, or at least the six-year course, as at present scheduled, should become the general course for the professional man. Other difficulties in making the present course efficient are the lack of a permanently located practice camp and an undermanned staff. In this respect, I invite comparison with the most successful forest schools in the United States, which employ four to six instructors and that for 40 weeks, against our three fully engaged with only 25 weeks' session. The best schools also have a

permanent practice camp, which with the added time at disposal permits a superior development of the men in practical direction.

A re-organization after the war on these lines must be taken into consideration.

(5) Report of the Dean of the Faculty of Education (Dr. W. Pakenham).

The attendance in the regular courses for the Session 1915-16 (343) was slightly below that of 1914-15, the record year in attendance at the Faculty of Education. There was a small increase in the numbers of students with Faculty Entrance standing (226 in all), which was more than offset by the decrease among the graduates in arts (81 in all). This decrease affected seriously the number of specialists in attendance, which shrank to 26. Enlistments and the new requirements in the specialist courses in arts explain the situation.

In another direction, the courses for degrees in Pedagogy, the registration stands at 40. This registration of experienced High School teachers, Normal School instructors, and Public School Inspectors is a measure of the growing interest in graduate work in Education.

In the new one-year course for the Ordinary Certificate in Household Science, which was offered by the Faculty of Education through the Household Science department under an agreement with the Department of Education, the registration was 32. The course was successful and the registration will probably increase.

The problem of the woman student still presses for solution. No students in a state University have a larger claim upon the attention—and the revenues—of that University than those who will become teachers in higher school posts, and thus shape the morals and manners of the young people of the state. In the Faculty of Education there are 277 women students, the majority of whom are under 21 years of age and are strangers in the city. And yet there is no residence for women in the Faculty of Education, no woman superintendent, counsellor, or teacher.

Three members of the staff were absent throughout the session on leave. Captain Cline and Lieutenant Manning were in service at the front; Major Bramfitt was attached to the School of Instruction of the Division.

"The School," the educational journal published monthly by the staff, has just completed its fourth year. Its influence increases. It now goes to 4,800 schools and is probably read by twice as many teachers. Its success, despite the burdens imposed by the war, is due in large measure to the energy of the managing director, Mr. W. J. Dunlop.

A memorandum on the University Schools, by the Headmaster, is enclosed.

*Memorandum on the University Schools by the Headmaster.*

The enrolment in the University Schools for September, 1915, was at the maximum. The effect of the war upon attendance has, however, become evident during the year in the Senior School, where, for the first time in the history of the institution, the number dropping out during a session has been considerable. Most of these boys have themselves joined the colours; others have taken the places of older relatives who had enlisted; while others again have been obliged to withdraw through the financial stringency of war-time.

This school has now contributed three masters and about 150 former pupils to the country's service and has reason to be proud of its increasing honour roll. Captain George A. Cline, a master in the school, who was the first to respond to the call and who has been at the front from the beginning, was recently made a

Chevalier of the Legion of Honour by the French Government for distinguished services. Already, too, the roll of the gallant dead has included six from our numbers. The results of the appeals in behalf of the Red Cross and Patriotic Funds illustrated once again the spirit of generosity which has always been characteristic of the school. To these funds the boys contributed more than $400 in cash, while the subscriptions of the masters were extremely liberal.

The returns from the Matriculation examination of 1915 were highly encouraging as evidence that the spirit of honest work which the school inculcates is bearing fruit. In the Pass lists the failures were few, while 35 succeeded in obtaining complete Matriculation. The Registrar of the University characterized our record sheet as one of the best he had ever seen. The Honour list was equally good. Seventeen boys succeeded in obtaining among them 55 honours, of which 25 were first class. The school was fortunate in having among the aspirants for scholarships a student of such character and intellect as Andrew Robertson Gordon, who carried off the Prince of Wales' prize—the blue ribbon of scholarship for Ontario preparatory schools. His record at the scholarship examination will be difficult to surpass. Not only did he secure first-class honours in every subject and first place in the departments of Classics and Mathematics, but he also ranked first in general proficiency and in every combination of departments for which proficiency scholarships are awarded. Due credit must be given to the masters of the school for these successes.

In athletics the notable event of the year was the winning of the Junior Championship in the Ontario Rugby Football Union. Credit for this is largely due to the energy and coaching skill of Mr. J. O. Carlisle, classical master in the school. Thanks are also due to the Board of Governors for the grant which enabled the club to enjoy the use of Aura Lee athletic grounds, without which proper preparation could not have been made. It is noteworthy that a majority of the members of the championship team have since enlisted.

The winning of these Provincial prizes in both the scholastic and athletic arenas marks the year 1915 as the "annus mirabilis" in the history of the University Schools.

Three additions to the equipment of the school are worthy of special remark. The establishment of the cafeteria under the direction of Miss Elliott has proven a boon to the school. It has been extensively patronised by both masters and boys, and has received the warm commendation of parents. Through the generous support of parents of the boys in attendance at the University Schools, it has been possible to acquire for our own use a pathescope or moving picture lantern designed for schools. The systematic weekly exhibition of educational films has been found to add greatly to the interest of geography and history, and already the usefulness of the machine has amply justified its purchase. The "Daughters of the Empire," through their educational secretary, are presenting to the University Schools, as a part of the Faculty of Education, sixty British historical pictures as a permanent exhibit upon our walls. These are now arriving and being framed, and will within a few weeks be formally presented by the representatives of the I.O.D.E., Mrs. Gooderham, Mrs. Riddell, and Mrs. E. F. B. Johnston, on the occasion of our annual reception to parents. This splendid gift comes most opportunely, and is hereby gratefully acknowledged.

(6) Report of the Librarian (H. H. Langton, Esq., M.A.).

The number of volumes added to the Library during the year ending 30th June is 2,546, and the number of pamphlets 783, making total contents of Library, 144,482 bound volumes and 49,541 pamphlets.

Statistics of the use of the Library and books by students, as compared with those of the two previous year, show that the progress of the war has had a very decided effect upon the student body. They are as follows:

| | 1913–14 | 1914–15 | 1915–16 |
|---|---|---|---|
| No. of day tickets | 33,656 | 32,053 | 28,014 |
| No. of books taken for the night | 12,383 | 12,546 | 12,006 |
| Average No. of readers at any one time | 91 | 96 | 67 |

The purchase of books for the Library during the year was greater than for the previous year, but in some departments of science which have depended largely upon the books or periodicals published in Germany, the expenditure is necessarily far below normal. The British Government authorized the importation of books and periodicals of a scientific character, printed in Germany, for University Libraries and other scientific institutions, and orders were placed for this Library with an English agent for periodicals. Nothing, however, has been received. The difficulty of importation through a neutral country such as Holland has evidently not yet been overcome.

(7) Report on University Extension Work (Dr. A. H. Abbott).

*Summer Session*:

The University of Toronto in co-operation with the Department of Education held, in the summer of 1915, the usual Summer Session from July 6th to August 15th. Courses were offered in Normal and Faculty Entrance, Commercial Work, Household Science, Vocal Music and Manual Training with the addition of two new Courses in Auxiliary Classes and Kindergarten Primary work. The attendance was as follows:

| | |
|---|---|
| Faculty Entrance | 90 |
| Normal Entrance | 36 |
| Commerce | 30 |
| Household Science | 49 |
| Music | 40 |
| Manual Training | 9 |
| Auxiliary Classes | 19 |
| Kindergarten Primary | 80 |

The total attendance was three hundred and fifty-three (353), an increase of seventy (70) over the summer of 1914. One needs only to see this large body of teachers gathered from different parts of Ontario to be impressed with the great opportunity the Summer Session offers.

The Dining Hall, North House and East House, Queen's Hall, Nos. 7, 9 and 4, Wycliffe College and Burwash Hall were opened for the accommodation of Summer

Session students and Examiners of the Department of Education. The total number in Residence was three hundred and twenty-two (322).

*Correspondence Courses*:

To supplement the work of the Summer Session in Commerce, Normal and Faculty Entrance work Correspondence Courses are arranged. The subjects are outlined in seven monthly Bulletins with prescribed work to be sent in monthly or fortnightly. Eighty-eight (88) teachers (Faculty Entrance 61; Normal Entrance 23, Commerce 4) took advantage of these Courses during the term 1915-16. In Normal and Faculty Entrance Courses seven hundred and ninety-five (795) exercises were sent in for examination and criticism, almost twice the number sent from about the same number of students the previous year. The total number of exercises sent in was eight hundred and thirty-four (834). The fees received for correspondence work were eight hundred and forty-nine dollars and fifty cents ($849.50).

*Teachers' Courses*:

In the spring of 1916 a course leading to the degree of Bachelor of Arts was authorized by the University of Toronto for teachers and others who were unable to attend the regular Session. The First Year subjects were given conjointly with the Faculty Entrance Classes already provided for. Three subjects of the Second Year were offered for the Summer Session of 1916 namely: English, French and Physics. The teachers of Ontario were circularized regarding this Course with the result that there were thirty-one (31) applications for Second Year work. Further information regarding this Course will be found in the next report.

*Local Lectures*:

Many of the organizations which in previous years had requested lecturers from the University were occupied this year in carrying on recruiting and Red Cross meetings. It was fortunate the demand fell off in this way: with the number of the staff already at the front and those remaining overtaxed with work, it was difficult at times to find lecturers for the requests which did come in. A total of ninety-six (96) lectures were arranged, thirty-five (35) in Toronto for which fifty-five dollars ($55.00) in fees was received, and sixty-one throughout the Province for which one hundred and six dollars and forty cents ($106.40) was received in fees. The amount paid by the Board of Governors to the lecturers was three hundred and five dollars ($305.00). Nineteen of the above lectures were delivered before Canadian Clubs, others before Teachers' Institutes, Scientific Associations and other organizations.

(8) Statement Regarding the Biological Museum (Professor Bensley).

During the past year practically no changes have been made in the exhibition material of the Departmental Museum, the efforts of the staff having been directed towards the arrangement of the collections in the Royal Ontario Museum of Zoology.

The following donations have been received:

Eggs and young of Commercial Fishes and exhibit of hatchery apparatus, presented by the Department of Naval Service, Ottawa.

A mounted photograph of Deer killed by wolves, presented by Mr. G. W. Bartlett, Superintendent, Algonquin Park.

A Collection of thirty West Indian Hummingbirds, presented by Miss E. Roger, Toronto.

An egg of Corey's Bittern, presented by Mr. Geo. Pierce, Toronto.

A Lizard and Egyptian Scarabs, presented by Mr. A. A. Bolté, Toronto.

An Australian Pigeon, presented by Mr. J. H. Ames, Toronto.

Prepared jaws of Shark, presented by Mr. E. M. Bogert, Toronto.

A western Gopher, presented by Mr. W. G. Bligh, Toronto.

A valuable collection of Ontario Birds of Prey and Ducks, presented by Mr. Z. A. Lash.

A case of foreign Birds, presented by Mrs. Charles Moore, Toronto.

A young Emperor Boa, presented by Mr. F. E. Fleming, Toronto.

A large stump cut by Beavers, presented by Mr. G. L. Jerman, Bancroft, Ontario.

A large number of valuable specimens have been received from the Riverdale Zoological Gardens, through the courtesy of Mr. F. Goode, Superintendent. These include 1 European Swan, 1 American Swan, 1 Heron, 1 Golden Pheasant and 1 Peacock; 1 Monkey, 1 Baboon, 2 Red Foxes, 2 Camels, 1 Wapiti, 1 Llama, 1 Leopard, 1 Lion, 2 Syrian Bears, 1 Sun Bear, 1 Siberian Bear, 1 Canadian Black Bear, 2 Seals.

There has been received by purchase at a nominal figure a valuable collection of Insects comprising upwards of 3,000 specimens, from Mr. Henry S. Saunders, Toronto.

The following additional specimens have been received from Algonquin Park, through the arrangement previously made with the Provincial Government, viz., 1 Beaver, 1 Fisher, 2 Mink and 1 Shrew.

A considerable amount of new material collected on the Atlantic and Pacific coasts by Professor E. M. Walker, Dr. A. G. Huntsman and Mr. A. D. Robertson of the Departmental staff, has been incorporated in the collections.

### (9) Statement Regarding the Geological Museum (Professor A. P. Coleman.)

During the year attention has been directed principally to the completion of printed labels for the specimens in the gallery: it is hoped that before the summer vacation this work will have been finished. A new wall case has been installed for the reception of a series of dressed blocks and hand samples of Canadian building stones. The alcoves have been provided with conspicuous signs indicating the object to which each is devoted.

Owing to the war and the financial stringency no money has been expended on the purchase of new material. It is hoped that the grant which thus has been allowed to revert will be restored to the museum when economic conditions are more favourable.

The more important acquisitions are as follows:

*By Donation*:

Pedestal of marble.—Alabama Marble Co., Gantt's Quarry, Alabama.

Blue corundum in nepheline syenite, Madawaska River, Ontario.—Consumers' Corundum Co., per Professor Haultain.

Set of copper-lead ores, Blue Bell mine, Kootenay, B.C.—Professor T. L. Walker.

Set of zinc ores, H. B. Mine, Salmo, B.C.—Professor T. L. Walker.

Sets of copper ores, Iron Mask and Eureka mines, B.C.—Professor T. L. Walker.

Large samples of British Columbia coals.—Provincial Museum, per Dr. R. B. Orr.

Miscellaneous collection.—Gowinlock estate, Toronto.

*By Collection*:

Building stones, rocks, coals from Saskatchewan and Alberta.—Professor W. A. Parks.

*By Purchase*:

Large slabs of Potsdam sandstone showing shrinkage cracks.

### (10) Statement Regarding the Palæontological Museum (Professor W. A. Parks.)

During the year a beginning has been made in the installation of a series of wall cases on the east side of the long partition in the gallery. This series will contain a representative set of specimens illustrating the geology and palæontology of Canada. Two sections were installed and supplied with specimens illustrating the Pre-Cambrian and Ordovician formations. It is hoped that this series will be of especial value to students. In order to provide these cases it was found that the grant for the purchase of material had to be drawn upon; in consequence no money has been expended for the purchase of new specimens.

Considerable time was spent in the preparation of printed labels for the high cases and this work is now practically completed. The chief acquisitions during the year were as follows:

*By Donation*:

Large series of general specimens.—Department of Zoology, per Professor Bensley.

Trenton limestone and fossils, Myrtle, Ont.—Charles Armstrong, Esq.

Concretion from White River, Ontario.—Edward Barrett, Esq.

Fine specimen of *Dictyonema crassibasale*.—Mrs. C. C. Grant, Hamilton.

Specimen of *Baculites ovatus*, Battleford, Sask.—R. Tutt, Esq., per Dr. T. L. Walker.

Fossil coral from Baffin Land.—Rev. Mr. Fleming, per Mr. C. T. Currelly.

*By Collection*:

Mesozoic and Tertiary fossils from Alberta.—Professor W. A. Parks.

*By Purchase*:

Fine specimen of *Climatichnites wilsoni*.—Mr. A. M. Campbell, Ottawa.

## (11) Statement Regarding the Mineralogical Museum (Professor T. L. Walker.)

The collections of the University and of the Royal Ontario Museum of Mineralogy have been enlarged during the year by donations and exchanges. The following lists contain the names of our chief benefactors:

*By Exchange.*

Bayley, Prof. W. S., University of Illinois, Urbana, Ill., U.S.A.
Geological Survey of Canada.
Smyth, Prof. C. H., jr., Princeton University, Princeton, N.J.
Watkin-Brown, W. T., Sydney, N.S.W.

*By Donation.*

Benner, W. W., Pt. Arthur.
Bennett, H. C., Nelson, B.C.
Campbell, A. D., O'Brien Mine, Cobalt.
Cole, A. T., Grafton, Ont.
Coleman, Dr. A. P., University of Toronto.
Collins, Dr. W. H., Geological Survey of Canada, Ottawa.
Crow's Nest Pass Coal Co., Fernie, B.C.
Dominion Coal Co., Glace Bay, N.S.
Douglas, Dr. James, New York City, N.Y.
Ellsworth, Dr. H. V., University of Toronto.
Emmens, N. W., Mgr. Monarch Mine, Field, B.C.
Flaherty, R. J., Toronto.
Guess, Prof. G. A., University of Toronto.
Hamil, C. B., Blenheim, Ont.
Haultain, Prof. H. E. T., University of Toronto.
Irwin, G. E., Salmo, B.C. (H. B. Mine).
Keffer, F., Ashcroft, B.C.
Lodge, Matthew, Moncton, N.B.
Maclean, A., University of Toronto.
Mond Nickel Co., Coniston, Ont.
Neilly, B., Mgr., Penn-Canadian Mines, Cobalt.
Orr., F. O., Peterboro'.
O'Flynn, W. A., Mond Nickel Co., Coniston, Ont.
Parks, Dr. W. A., Royal Ontario Museum of Palæontology.
Parsons, Prof. A. L., University of Toronto.
Stitt, J. B., Braden Copper Co., Rancagua, Chili, South America.
Thomson, J. E., University of Toronto.
Wickett, J. W., Redruth, Cornwall, England.
Widdowson, E. W., Nelson, B.C.
Workman, G. E., Toronto.
Wylie, W. H., Hollinger Mine, Timmins, Ontario.
Young, W., Toronto.

## (12) Report of the Medical Research Committee for Year 1915-16.

The work of the Medical Research Fund, like all the other activities of the University, has suffered considerable disorganization as a result of the war. Four Fellows, Doctors Caulfeild, Armour, Sharpe and Fletcher, are at present abroad on active service, and have had their researches interrupted before they were well begun. Two others, Drs. Fletcher McPhedran and Annie Homer, have resigned upon the completion of the work on which they were engaged. To balance these losses only two new Fellows, Drs. Detweiler and Bruce Macullum, have been appointed. Apart from these two, the only appointee now acting under the Fund is Dr. Goldie; and it should be noted that, although Dr. Goldie continues to act as Director of the Medical Clinic, he does so now, at his own request, without salary.

In spite of these unfavourable circumstances the work accomplished during the year 1915-16 is neither inconsiderable nor unimportant. *Dr. Fletcher McPhedran* continued until September, 1915, the date of his resignation, a series of observations on the reaction of the blood in nephritic dyspnoea; these observations, together with others obtained subsequently to his resignation, will be published shortly. *Dr. Annie Homer,* who acted as Fellow until December, 1915, continued her important work upon the metabolism of tryptophane; in connection therewith she elaborated a new and useful method for the determination of the tryptophane content of proteins, and made a careful and thorough examination of the colour reactions of the urine after the administration of indol derivatives. The results of Miss Homer's work appear in five papers, named below, which are to be followed presently by others. *Dr. Bruce Macallum,* who was appointed Fellow in July, 1915, has been engaged in a study of the substance or substances responsible for growth; this study promises results important not merely from the theoretical, but also from the clinical and even the economic point of view; one paper has already been published, and further reports may be expected in the near future. *Dr. Detweiler,* whose appointment dates from June, 1915, has been carrying on experimental work with a virulent streptococci in an effort to establish their etiological relationship to endocarditis; in a paper which will appear at an early date, he will publish evidence demonstrating that organisms isolated from the blood of patients with chronic infectious endocarditis are capable of producing in rabbits lesions identical with those of the human disease. *Dr. Goldie* reports that he is engaged upon a study of pleural effusions, and that under his direction investigations are being conducted in the Out-Patient Department by Dr. Oille on acute endocarditis, by Dr. Rolph on hyperchlorhydria, by Dr. Minns on tuberculous infections in children, and by Dr. Solway on asthma; in addition a new clinic has been established for the treatment of syphilis with the idea of securing data as to the prevalence of the disease and the efficiency of treatment.

The following papers, published since June, 1915, contain work performed wholly or in part by Medical Research Fellows, or under their direction:

Almon Fletcher: "Some Considerations in the Study of Infantile Tetany, with Report of a Case." Arch. Int. Med., *16*, p. 382, Sept. 1915.

Alan Brown and Almon Fletcher: "The Etiology of Tetany-Metabolic and Clinical Studies." Amer. Journ. Dis. of Children, *10*, p. 313, Nov. 1915.

Annie Homer: "A Spectroscopic Examination of the Colour Reactions of Certain Indol Derivatives and of the Urine of Dogs after their administration." Journ. Biol. Chem. *22*, p. 345, Sept. 1915.

Annie Homer: "A Method for the Estimation of the Tryptophane Content of Proteins, Involving the Use of Baryta as a Hydrolyzing Agent." Journ. Biol. Chem., *22*, p. 369, September 1915.

Annie Homer: "The Relation Between the Administration of Tryptophane to Dogs and The Elimination of Kynurenic Acid in Their Urine." Journ. Biol. Chem. *22*, p. 391, September 1915.

Annie Homer: "A note on the effect of iron salts on the metabolism of tryptophane in the dog." (Journal Physiology, Vol. L., March, 1916.)

Annie Homer: "A note on the action of tissue enzymes on tryptophane." (Journal Physiology, Vol. L., March, 1916.)

C. Funk and A. Bruce Macallum: "Studies of Growth *11*. On the Probable Nature of the Substance Promoting Growth in Young Animals." Journ. Bio Chem., *23*, p. 41[3], Dec. 1915.

To these there ought to be added papers by Dr. Goldie and the members of the hospital staff working under his direction. A list of these has been promised by Dr. Goldie and will be furnished as soon as it is received.

(13) Report of the Director of the Antitoxin Laboratory (Dr. J. G. Fitzgerald.)

The work of this laboratory has just entered upon its third year. Very considerable progress has been made since the first report was prepared.

On February 1st, 1916, the Provincial Board of Health of Ontario began the free distribution of public health biological products in the Province of Ontario. These products include diphtheria and tetanus antitoxin, anti-meningitis serum, smallpox vaccine, the pasteur treatment and anti-typhoid vaccine. (All but the last named are supplied by this laboratory.) This movement on the part of the Provincial Board of Health has received the very warmest commendation and has enabled the Antitoxin Laboratory to take a very real and active part in public health work in the Province of Ontario.

The very close relationship of the Department of Hygiene and the Provincial Board of Health of Ontario, initiated by Major Amyot, has in this way been further strengthened. Mutual advantages from the points of view of research, teaching and public health endeavour are hopefully anticipated.

The distribution of public health products has also continued in Newfoundland, Nova Scotia, New Brunswick, Quebec, Manitoba, Saskatchewan and Alberta.

The laboratory has continued to supply all the biological products required by the Department of Militia and Defence for the Canadian Expeditionary Force. Thanks to the splendid work of Dr. R. D. Defries and his assistants large quantities of tetanus antitoxin have been produced and supplied for the past eight months. At present all the tetanus antitoxin used by the Canadian Expeditionary Force, overseas and in Canada, is prepared in this laboratory under the direction of Dr. Defries.

At the present time the scope of the work of the laboratory is expanding considerably, in addition to the antitoxins and vaccines already being produced, anti-meningitis serum is being prepared and vaccine virus is to be started as soon as the necessary accommodation is provided.

Through the fine generosity of Colonel Albert E. Gooderham, the laboratory is soon to have a permanent home for the necessary laboratory animals. A farm of about fifty acres has been purchased by Colonel Gooderham and deeded to the University. On this property a laboratory and model stables and a cottage are being erected. The stables include living quarters for employees, an operating room, preparation room and all the necessary features to insure the ideal conditions under which biological products should be produced. It is expected that within a few months the new quarters will be completed and ready for occupancy.

This property will provide facilities for the antitoxin laboratory similar to those provided at Garche, for the Pasteur Institute in Paris and at Elstree, for the Lister Institute in London. This laboratory and the Province of Ontario is under a debt of obligation to Colonel Gooderham for his magnificent gift.

The very warm support of the laboratory accorded by Major J. W. S. McCullough, Chief Officer of Health, is hereby gratefully acknowledged. This has been especially welcome because of the continued absence in France of the Head of the Department of Hygiene, Major Amyot, O.C. Sanitary Section, First Canadian Division.

The staff of the Antitoxin Laboratory has continued to increase in numbers, and to all of them the Director is indebted for their loyal and much appreciated co-operation.

## (14) Report of the Director of the Department of Social Service (Dr. Franklin Johnson.)

*General.*

The department has had a successful year of work in the different branches of its field. Further details will appear under the following heads.

By the way of summary, it will be said here that the number of students has been larger than expected, the field work has been improved and strengthened, the courses of instruction have been well conducted and successful, the commencement of a library has enabled better study on the part of the students, the office system and records has proved satisfactory, fees have been larger than anticipated owing to the number of students, and the establishment of the department in the new building has enabled work of far higher quality than before, and has made possible the welding of the work into a homogeneous unit.

Two especially interesting events of the year have been the action of the city in requiring that all playground supervisors and assistants employed by it must have the course of training on playground work in this department, and the establishment by the Toronto General Hospital of a scholarship for its best student in our Medical Social Service Course, to consist of the fees and living expenses while in attendance in the Department of Social Service.

*Building.*

The building has proved well adapted for the work and its situation is very accessible. The lecture-room facilities furnished by the building have all been required by the needs of the work. One class has been too large for the larger lecture-room, and to accommodate it we have been compelled to use a lecture-room in the Mining Building, which has proved a convenient and satisfactory arrangement. The office and library accommodation has also proved very suitable. The library and reading-room facilities have been completely used on most days.

The building is beginning to be recognized as a centre for the social interests and activities of the city, and they are gradually gathering around this department as a focus. A number of important meetings of city organizations have been held here during the year. This tends to increase the influence and contact of the University with city activities and is to be desired.

The most important feature of the building is its effect upon the work of the Department. This cannot be over-estimated. It has really created the Department, and has enabled it to do work of a grade which would otherwise have been impossible.

*The Director.*

In addition to work directly involved in the administration of the Department, there has also been a large amount of outside work placed upon the Director. While avoiding controversial activities in the city, he has been obliged to be active in many organizations. The Director's office has become a source of information for many city activities whose members come there seeking advice and recommendations. In addition to this he has been obliged to deliver a large number of addresses practically every week throughout the year.

*Courses of Instruction.*

The general plan of courses has proved satisfactory as a whole. There have been some slight changes this year, and a few more slight changes will be advisable for next year. The plan in general has shown itself sufficient for the work with its present scope.

Several new courses have been added this year, including a course for Playground Supervisors, conducted by the Director and attended by the Playground Supervisors of the city playgrounds, a discussion course in Child Welfare conducted by Miss Hart, and a course on Games and Recreation conducted by Miss Carson.

There has been improvement in almost every course. Detailed comment on the courses is not in place here, but mention may be made of the course on Community Work under Miss Carson, which has been broadened and enlarged; the course on Social Psychology, which under Dr. Abbott and Dr. Hincks has been changed and improved; and the course on Child Welfare, which under Miss Hart has been developed into a strong and satisfactory course, covering well that important field. Special mention of these courses is not meant to detract from the other courses.

*Field Work.*

The problem of suitable field work has been totally different from that of last year. The changed situation in the city as regards unemployment, charitable relief and social distress in general, has very largely altered the field work arrangements of the preceding year and necessitated in a large measure a complete change and replanning.

It has proved possible, however, to successfully develop field work, and to provide it for the enlarged number of students whom the Department had this year.

*Library.*

The library is commencing to be of real service to the students. A few carefully selected books have been purchased, and other books have been donated to the library through the kindness of interested people outside.

The Library also has commenced making a collection which should prove of the utmost value, of the reports and publications of the leading institutions and organizations in the different branches of social work in the United States, and as far as possible those of all the social activities issuing reports in the Dominion. Such reports are of great importance and constitute an indispensable part of the working material of the libraries giving special attention to the social field. Our own library should be shortly well equipped in this regard, since most of these reports are comparatively inexpensive.

*Students.*

The department has enrolled this year 274 students, as compared with 293 last year, a most satisfactory attendance in view of the fact that the staffs of certain organizations completed their work the year before. The number of full-time students has been increased. Last year nine students received the certificate. This year seventeen students were granted the certificate, with a total enrolment of twenty-two full-time students.

The quality of the students is markedly high. Last year comment was also made as to this, but the present year's class of full-time students is still better in education, ability and general qualifications, excellent as was the class of last year.

(15) Report of the Physical Director (Dr. J. W. Barton).

As there was no intercollegiate competition of any kind last year interfaculty contests in the various branches of sport engaged a great number of students.

In Rugby twelve teams competed for the Mulock Cup, perhaps the most exciting series of years. Jr. S.P.S. won from Victoria in the finals.

In soccer eight teams were entered, the Dental team finally winning from Knox.

The track meet was held as usual with a goodly number of competitors, but very few spectators. The elimination of the old time "scrap" from the track meet, while seriously depleting the attendance, has dignified the sport. The O.A.C. brought down their usual number of entrants and were fortunate to win the trophy. No records were broken.

The Brotherton Cup race for cross-country running had four teams entered. St. Michael's College came in for the first time and won the race from the old time winners, Trinity College.

The Tennis Tournament was unusually successful because of the able handling by the executive. University College won the interfaculty competition.

The swimming competition was below the usual standard. Medicals won the Eckhardt Cup.

The assault-at-arms saw nearly every weight contested, but the total number entered was the lowest in our history. The quality of the work, however, was better than above the average. The Davidson Cup for the greatest number of points was won by University College.

All the games in the Sifton Cup Basket Ball series were played on the Central Y.M.C.A. floor, as our own floor in the temporary gymnasium is too small. Twelve teams entered and great interest was maintained throughout the whole series. Junior Victoria College won the final.

The Jennings Cup Hockey series had twelve teams entered, the Junior Dentals finally winning.

The indoor work and gymnasium classes were very poorly attended. Drill three times a week took away all desire for exercise from those not engaged in athletics.

The new building is nearing completion, but the great amount of detail required for the interior fittings makes progress slow.

Gymnasium Report.—Women's Department (Miss Ivy Coventry, Instructor.)

| | |
|---|---|
| Total No. of women students enrolled in Gymnasium and Swimming Classes | 233 |
| Total No. enrolled in Gymnasium Classes | 188 |
| Total No. attending 1st Year Physical Training Classes | 128 |
| Total No. attending 2nd Year Physical Training Classes | 60 |
| Average attendance at each Class | 40 |
| No. of Gymnasium Classes per week | 10 |
| Total No. of Gymnasium Classes from October to April, 1916 | 209 |

There were 128 students attending the 1st Year Physical Training Classes aiming for credit.

Records of attendance and class standing are filed.

There were sixty (60) students in the 2nd Year Class aiming for credit and the written statement promised by the University to those completing the two years' course in physical training. Including instruction in theory and practical work in the gymnasium, and swimming, there was 60 per cent. of attendance at classes and the final examination test. At the end of March 34 students of the 2nd Year Class completed the final practical test and passed the examination successfully.

Fifty-six of the 1st Year Class completed the test and passed successfully.

Thirteen students of the 2nd Year Class tried and passed the final swimming test.

There was a separate gymnasium class of Household Science students—composed of teachers who held the professional certificate granted by the Department of Education. It was compulsory for these students to devote one period (1 hour) per week to physical training.

| | |
|---|---|
| Total No. enrolled in this class | 30 |
| Average attendance | 30 |
| Total No. of classes taught | 20 |

A gymnasium exhibition of class-work and special drills was given in the Women's Gymnasium on Thursday evening, February 24, 1916, in connection with the Women's Athletic Association. This affair required extra time and practice. An expression of appreciation from the President of the Association to the class members was gratifying and encouraging.

All members of the gymnasium and swimming classes have shown marked enthusiasm and faithfulness in the Department of Physical Education.

### (16) Report of the Superintendent of the Dining Hall (Miss V. M. Ryley.)

In submitting my report for the academic year 1915-16, I am glad to state that the year has been as successful as could be expected under war conditions.

During the month of October the Dining Hall served from 1,100 to 1,150 meals per day, but when Knox College Dining Hall was opened our numbers were reduced to an average of about 1,000 meals per day. As the year proceeded, group after group of the regular Dining Hall attendants, many of them students who have taken their meals here for several years, left either for England or training camps in Canada, until, when the Dining Hall closed, it was serving regularly only about 700 meals per day, which is less than at any time in the last five years. I am sure this result is something to be proud of rather than to be deplored. The total number of meals served was 178,729, or about 50,000 less than last year.

The year has been an exceedingly difficult one from a service standpoint. At times it was almost impossible to secure competent help, even though much higher wages were paid than formerly. Fully 12 or 15 of my best waiters and kitchen men have enlisted, and I am facing next year with the problem of securing both a new head waiter and a new meat cook, one having enlisted and the other having accepted a position at half as much more than the University can afford to give. Both of these men have been with me three years and their places will be hard to fill. Waiters were so scarce that the President has considerately allowed me to use waitresses in the Men's Dining Hall, whenever necessary, until the conclusion of the war.

## APPENDIX B.

(1) Enrolment in the Colleges.
(2) Enrolment in University Subjects.
(3) Registration in Courses in the Faculty of Arts.
(4) Registration of Women Students.
(5) Registration for Graduate Courses.

### (1) Enrolment in the Colleges.

The students in University College were enrolled as follows:

| —— | Greek. | Latin. | Ancient History. | English. | German. | French. | Orientals. | Ethics. |
|---|---|---|---|---|---|---|---|---|
| First Year— | | | | | | | | |
| Pass | 8 | 203 | 145 | 183 | 64 | 81 | 7 | ..... |
| Honours | 9 | 28 | 30 | 76 | 40 | 60 | ..... | ..... |
| Second Year— | | | | | | | | |
| Pass | 9 | 88 | 5 | 168 | 69 | 104 | 12 | ..... |
| Honours | 10 | 10 | 15 | 55 | 35 | 38 | ..... | ..... |
| Third Year— | | | | | | | | |
| Pass | 5 | 10 | 13 | 104 | 21 | 50 | 1 | 46 |
| Honours | 9 | 9 | 9 | 40 | 28 | 26 | ..... | ..... |
| Fourth Year— | | | | | | | | |
| Pass | 1 | 4 | 13 | 58 | 22 | 35 | 2 | 22 |
| Honours | 6 | 6 | 3 | 27 | 12 | 13 | ..... | ..... |
| Totals— | | | | | | | | |
| Pass | 23 | 305 | 176 | 513 | 176 | 270 | 22 | 68 |
| Honours | 34 | 53 | 57 | 198 | 115 | 137 | ..... | ..... |

The students in Victoria College were enrolled as follows:

| —— | Greek. | Latin. | Ancient History. | English. | German. | French. | Orientals. | Ethics. |
|---|---|---|---|---|---|---|---|---|
| First Year— | | | | | | | | |
| Pass | 3 | 77 | 59 | 67 | 10 | 42 | 27 | ..... |
| Honours | 11 | 26 | 22 | 38 | 30 | 44 | ..... | ..... |
| Second Year— | | | | | | | | |
| Pass | 6 | 35 | ..... | 78 | 18 | 46 | 16 | ..... |
| Honours | 4 | 5 | 11 | 13 | 18 | 18 | ..... | 11 |
| Third Year— | | | | | | | | |
| Pass | 1 | 6 | 6 | 74 | 10 | 25 | 8 | 30 |
| Honours | 7 | 5 | 5 | 12 | 10 | 8 | 1 | 6 |
| Fourth Year— | | | | | | | | |
| Pass | 2 | 5 | 6 | 68 | 6 | 20 | 6 | 19 |
| Honours | 3 | 3 | 2 | 12 | 8 | 7 | 4 | 3 |
| Totals— | | | | | | | | |
| Pass | 12 | 123 | 71 | 287 | 44 | 131 | 57 | 49 |
| Honours | 25 | 39 | 40 | 75 | 66 | 77 | 5 | 20 |

The students in Trinity College were enrolled as follows:

| —— | Greek. | Latin. | Ancient History. | English. | German. | French. | Orientals. | Ethics. |
|---|---|---|---|---|---|---|---|---|
| First Year— | | | | | | | | |
| Pass | 5 | 18 | 8 | 15 | 6 | 13 | 4 | ..... |
| Honours | 3 | 8 | 6 | 10 | 6 | 9 | ..... | ..... |
| Second Year— | | | | | | | | |
| Pass | 1 | 10 | ..... | 11 | 6 | 10 | 1 | ..... |
| Honours | 1 | 1 | 2 | 9 | 5 | 7 | ..... | ..... |
| Third Year— | | | | | | | | |
| Pass | ..... | 3 | 3 | 11 | 5 | 10 | 1 | 3 |
| Honours | 3 | 3 | 2 | 3 | 2 | 2 | ..... | ..... |
| Fourth Year— | | | | | | | | |
| Pass | ..... | ..... | 3 | 14 | 5 | 9 | 2 | 4 |
| Honours | ..... | ..... | ..... | 4 | 4 | 3 | ..... | 2 |
| Totals— | | | | | | | | |
| Pass | 6 | 31 | 12 | 51 | 22 | 42 | 8 | 7 |
| Honours | 7 | 12 | 12 | 26 | 17 | 21 | ..... | 2 |

The students in St. Michael's College were enrolled as follows:

| —— | Greek. | Latin. | Ancient History. | English. | German. | French. | Philosophy. | Ethics. |
|---|---|---|---|---|---|---|---|---|
| First Year— | | | | | | | | |
| Pass | 12 | 58 | 4 | 61 | 34 | 51 | ..... | ..... |
| Honours | 4 | 5 | 4 | 5 | 4 | 5 | ..... | ..... |
| Second Year— | | | | | | | | |
| Pass | 7 | 22 | ..... | 23 | 10 | 21 | ..... | ..... |
| Honours | 1 | 1 | 1 | 3 | 3 | 3 | ..... | ..... |
| Third Year— | | | | | | | | |
| Pass | 4 | 6 | ..... | 28 | 8 | 19 | 12 | 22 |
| Honours | ..... | ..... | ..... | 2 | 2 | 1 | 6 | 6 |
| Fourth Year— | | | | | | | | |
| Pass | 1 | ..... | ..... | 14 | 5 | 7 | 2 | 9 |
| Honours | ..... | ..... | ..... | 3 | 3 | 3 | 7 | 7 |
| Totals— | | | | | | | | |
| Pass | 24 | 80 | 4 | 126 | 57 | 98 | 14 | 31 |
| Honours | 5 | 6 | 5 | 13 | 12 | 12 | 13 | 13 |

## (2) Enrolment in University Subjects.

The following tables exhibit the numbers attending lectures in University subjects, together with the numbers of those taking the practical work in the laboratories:

DEPARTMENT OF MATHEMATICS.

| — | Pass. | Pass and Honours. | Honours. |
|---|---|---|---|
| Faculty of Arts— | | | |
| First Year | 250 | ..... | 57 |
| Second Year | ..... | ..... | 65 |
| Third Year | ..... | ..... | 25 |
| Fourth Year | 9 | ..... | 14 |
| Faculty of Applied Science— | | | |
| First Year | ..... | 101 | ..... |
| Second Year | ..... | 86 | ..... |
| Total | 259 | 187 | 161 |

DEPARTMENT OF PHYSICS.

| — | Pass. | Pass and Honours. | Honours. | Laboratory. |
|---|---|---|---|---|
| Faculty of Arts— | | | | |
| First Year | 88 | ..... | 92 | 176 |
| Second Year | 43 | ..... | 53 | 61 |
| Third Year | 3 | ..... | 27 | 30 |
| Fourth Year | 3 | ..... | 27 | 14 |
| Graduate Students | ..... | ..... | 11 | 11 |
| Faculty of Medicine— | | | | |
| First Year | ..... | 125 | ..... | 125 |
| Faculty of Forestry— | | | | |
| First Year | 1 | ..... | ..... | 1 |
| Faculty of Household Science— | | | | |
| First Year | 41 | ..... | ..... | 41 |
| Total | 179 | 125 | 210 | 459 |

## DEPARTMENT OF BIOLOGY.

| —— | Pass. | Pass and Honours. | Honours. | Laboratory. |
|---|---|---|---|---|
| **Faculty of Arts—** | | | | |
| First Year | 171 | ..... | 50 | 203 |
| Second Year | 36 | ..... | 21 | 57 |
| Third Year | ..... | ..... | 11 | 11 |
| Fourth Year | ..... | ..... | 7 | 7 |
| Graduate Students | ..... | ..... | ..... | 4 |
| **Faculty of Medicine—** | | | | |
| First Year | ..... | 125 | ..... | 125 |
| Second Year | ..... | 91 | ..... | 91 |
| **Faculty of Applied Science—** | | | | |
| First Year | ..... | 8 | ..... | 8 |
| Second Year | ..... | 2 | ..... | 2 |
| Fourth Year | ..... | 10 | ..... | 10 |
| **Faculty of Forestry—** | | | | |
| First Year | ..... | ..... | ..... | ..... |
| Second Year | ..... | ..... | ..... | ..... |
| Third Year | ..... | 7 | ..... | 7 |
| Fourth Year | ..... | 4 | ..... | 4 |
| Ontario Veterinary College Students in Botany | ..... | ..... | ..... | 58 |
| Total | 207 | 247 | 89 | 587 |

## DEPARTMENT OF CHEMISTRY.

| —— | Pass. | Pass and Honours. | Honours. | Laboratory. |
|---|---|---|---|---|
| **Faculty of Arts—** | | | | |
| First Year | 40 | ..... | 96 | 136 |
| Second Year | 103 | ..... | 26 | 26 |
| Third Year | 24 | ..... | 7 | 12 |
| Fourth Year | 3 | ..... | 17 | 8 |
| Occasional Students | 2 | ..... | ..... | 2 |
| Graduate Students | ..... | ..... | ..... | 6 |
| **Faculty of Medicine—** | | | | |
| First Year | ..... | 125 | ..... | 125 |
| **Faculty of Applied Science—** | | | | |
| Third Year | ..... | 4 | ..... | ..... |
| **Faculty of Forestry—** | | | | |
| First Year | ..... | 1 | ..... | 1 |
| Second Year | ..... | 12 | ..... | 1 |
| Ontario Veterinary College Students | 61 | ..... | ..... | 61 |
| Total | 233 | 142 | 146 | 378 |

## DEPARTMENT OF PHYSIOLOGY AND BIOCHEMISTRY.

| — | Pass and Honours | Honours. | Laboratory. |
|---|---|---|---|
| **Faculty of Arts—** | | | |
| Second Year | 21 | 1 | 21 |
| Third Year | 70 | 31 | 70 |
| Fourth Year | 35 | 35 | 35 |
| Fourth Year (Food Chemistry) | 32 | 20 | 32 |
| Occasional Students (Food Chemistry) | 31 | 31 | 31 |
| **Faculty of Medicine—** | | | |
| Second Year | 91 | ..... | 91 |
| Third Year | 93 | ..... | 93 |
| Veterinary Students | 51 | ..... | 51 |
| Total | 424 | 118 | 424 |

## DEPARTMENT OF GEOLOGY.

| — | Pass. | Pass and Honours | Honours. | Laboratory. |
|---|---|---|---|---|
| **Faculty of Arts—** | | | | |
| Second Year | 105 | ..... | 20 | 115 |
| Third Year | 6 | ..... | 5 | 2 |
| **Faculty of Applied Science—** | | | | |
| Second Year | ..... | 6 | ..... | ..... |
| Third Year | ..... | 50 | ..... | 6 |
| Fourth Year | ..... | 32 | ..... | 1 |
| **Faculty of Forestry—** | | | | |
| Second Year | ..... | 11 | ..... | 11 |
| Third Year | ..... | 6 | ..... | ..... |
| Total | 111 | 105 | 25 | 144 |

## DEPARTMENT OF MINERALOGY.

| — | Pass. | Pass and Honours. | Honours. | Laboratory. |
|---|---|---|---|---|
| **Faculty of Arts—** | | | | |
| Second Year | 93 | ..... | 14 | 107 |
| Third Year | 5 | ..... | 9 | 14 |
| Fourth Year | ..... | ..... | 9 | 4 |
| Graduate Students | ..... | ..... | 2 | 2 |
| **Faculty of Applied Science—** | | | | |
| First Year | ..... | 11 | ..... | 11 |
| Second Year | ..... | 50 | ..... | 48 |
| Third Year | ..... | 9 | ..... | 9 |
| Fourth Year | ..... | 1 | ..... | 1 |
| **Faculty of Forestry—** | | | | |
| Second Year | ..... | 11 | ..... | 11 |
| Third Year | ..... | 6 | ..... | 6 |
| Fourth Year | ..... | ..... | ..... | 1 |
| Total | 98 | 88 | 34 | 214 |

## DEPARTMENT OF PHILOSOPHY.

| — | History of Philosophy and Metaphysics. | | Psychology. | Logic. | Ethics. | |
|---|---|---|---|---|---|---|
| | Pass. | Honours. | Honours. | Honours. | Pass. | Honours. |
| Second Year | ..... | 28 | 39* | 28 | ..... | 15 |
| Third Year | 68 | 12 | 13 | 12 | 54 | 12 |
| Fourth Year | 38 | 8 | 8 | | 36 | 8 |
| Graduate Students | ..... | 8 | 12 | 4 | ..... | 4 |
| Total | 106 | 56 | 72 | 52 | 90 | 39 |

*11 occasional.

## DEPARTMENT OF POLITICAL SCIENCE.

| | Pass. | Honours. |
|---|---|---|
| Faculty of Arts— | | |
| Department of Political Science— | | |
| First Year | ..... | 27 |
| Second Year | 29 | 29 |
| Third Year | 78 | 16 |
| Fourth Year | 80 | 16 |
| Graduate Students | ..... | 11 |
| Department of Commerce and Finance— | | |
| First Year | ..... | 12 |
| Second Year | ..... | 3 |
| Third Year | ..... | 6 |
| Fourth Year | ..... | 6 |
| Department of Modern History— | | |
| Second Year | ..... | 6 |
| Third Year | ..... | 2 |
| Fourth Year | ..... | 2 |
| Department of Philosophy— | | |
| Third Year | 12 | ..... |
| Department of Household Science | 9 | ..... |
| Faculty of Forestry | 2 | ..... |
| Occasional Students | 3 | ..... |
| Totals | 213 | 136 |

## DEPARTMENT OF HISTORY.

| | Pass. | Honours. |
|---|---|---|
| First Year | ..... | 60 |
| Second Year | 153 | 70 |
| Third Year | 168 | 38 |
| Fourth Year | 130 | 44 |
| Total | 451 | 212 |

## DEPARTMENT OF ITALIAN AND SPANISH.

| | Italian. | | Spanish. | | Phonetics. |
|---|---|---|---|---|---|
| | Pass. | Honours. | Pass. | Honours. | Honours. |
| First Year | 15 | 49 | 16 | 10 | ..... |
| Second Year | 23 | 27 | 2 | ..... | 34 |
| Third Year | 2 | 15 | 2 | 6 | ..... |
| Fourth Year | 3 | 8 | 2 | 1 | ..... |
| Graduate Students | ..... | 1 | ..... | 2 | ..... |
| Total | 43 | 100 | 22 | 19 | 34 |

## DEPARTMENT OF HOUSEHOLD SCIENCE.

| | General Course. | Household Science Course. | Total. |
|---|---|---|---|
| Faculty of Arts— | | | |
| First Year | ..... | 36 | 36 |
| Second Year | ..... | 23 | 23 |
| Third Year | 24 | 31 | 55 |
| Fourth Year | 16 | 20 | 36 |
| Faculty of Household Science— | | | |
| Occasional Students | ..... | ..... | 26 |
| Faculty of Education— | | | |
| Household Science Course | ..... | ..... | 31 |
| General Course | ..... | ..... | 206 |
| Summer Session | ..... | ..... | 49 |
| | 40 | 110 | 462 |

## (3) Registration in Courses in the Faculty of Arts, 1915–1916.

| Courses. | First Year. | | | | Second Year. | | | | Third Year. | | | | Fourth Year. | | | | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | U.C. | V.C. | T.C. | St.M.C. | U.C. | V.C. | T.C. | St.M.C. | U.C. | V.C. | T.C. | St.M.C. | U.C. | V.C. | T.C. | St.M.C. | |
| General Course | 142 | 45 | 15 | 55 | 73 | 35 | 7 | 21 | 61 | 44 | 7 | 22 | 71 | 32 | 11 | 7 | 648 |
| General Course (Household Science) | 18 | 19 | 1 | ..... | 11 | 10 | 1 | ..... | 10 | 5 | ..... | ..... | ..... | ..... | ..... | ..... | 75 |
| Classics | 8 | 5 | 2 | 2 | 4 | 3 | ..... | 1 | 6 | 6 | 2 | ..... | 5 | 2 | ..... | ..... | 46 |
| English and History (Classics) | 6 | 6 | 1 | 2 | 5 | 1 | 1 | ..... | 3 | 3 | 1 | ..... | 5 | 2 | ..... | ..... | 36 |
| Greek and Hebrew | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 |
| Orientals | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | 4 | 1 | ..... | 7 |
| Moderns | 28 | 14 | ..... | 3 | 25 | 8 | 1 | 3 | 19 | 9 | 1 | 1 | 17 | 7 | 2 | 2 | 140 |
| Eng. and Hist. (Moderns) | 19 | 12 | 3 | ..... | 12 | 7 | 5 | ..... | 8 | 1 | 2 | 1 | 11 | 3 | ..... | 1 | 85 |
| Modern History | 12 | 3 | 1 | 1 | 3 | 2 | 1 | ..... | ..... | 2 | ..... | ..... | 2 | 1 | 1 | ..... | 29 |
| Political Science | 18 | 7 | 2 | 1 | 24 | 7 | 1 | ..... | 12 | 5 | ..... | ..... | 10 | 7 | 1 | ..... | 95 |
| Commerce and Finance | 9 | 5 | ..... | ..... | 3 | ..... | 1 | ..... | 4 | 3 | ..... | ..... | 1 | 6 | ..... | ..... | 32 |
| Philosophy | ..... | ..... | ..... | ..... | 15 | 12 | 1 | ..... | 6 | 7 | ..... | 7 | 6 | 3 | 2 | 7 | 66 |
| Mathematics and Physics | 29 | 11 | 1 | ..... | 15 | 8 | 1 | ..... | 15 | 6 | ..... | ..... | 17 | 1 | ..... | ..... | 104 |
| Natural and Physical Sciences | 26 | 17 | 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 50 |
| Physics | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2 | ..... | ..... | ..... | 1 | 1 | ..... | ..... | 4 |
| Biology | ..... | ..... | ..... | ..... | 6 | ..... | ..... | ..... | 1 | 1 | ..... | ..... | 2 | 2 | ..... | ..... | 12 |
| Geology and Mineralogy | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | 2 | 1 | ..... | ..... | 3 | ..... | ..... | ..... | 7 |
| Chemistry and Mineralogy I. | ..... | ..... | ..... | ..... | 9 | 1 | 1 | ..... | 3 | ..... | ..... | ..... | ..... | 2 | ..... | ..... | 16 |
| Chemistry and Mineralogy II. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 | 1 | ..... | ..... | ..... | 1 | ..... | ..... | 3 |
| Biological and Phys. Sciences | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | 3 | 2 | ..... | ..... | 1 | 1 | ..... | ..... | 8 |
| Physiological and Biochem. Scs. | ..... | ..... | ..... | ..... | 5 | 2 | ..... | 1 | 2 | 2 | ..... | ..... | 10 | 2 | ..... | ..... | 24 |
| Household Science | ..... | ..... | ..... | ..... | ..... | 1 | ..... | ..... | 8 | 4 | 4 | ..... | 10 | 8 | ..... | ..... | 35 |
| Physiology and Household Scs. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2 | ..... | ..... | 2 |
| Arts and Forestry | ..... | ..... | ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2 | ..... | ..... | ..... | 3 |
| Chemistry | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Anatomy | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| **Total of courses taken** | 316 | 144 | 33 | 64 | 214 | 97 | 21 | 26 | 166 | 103 | 17 | 31 | 174 | 87 | 18 | 17 | 1,528 |
| **Total of students registered** | 302 | 139 | 33 | 64 | 210 | 96 | 21 | 26 | 166 | 103 | 17 | 31 | 174 | 87 | 18 | 17 | |

## (4) Registration of Women Students.

The women students registered in University College took the following courses:

| Courses. | First Year. | Second Year. | Third Year. | Fourth Year. |
|---|---|---|---|---|
| General | 36 | 36 | 24 | 32 |
| Classics | 2 | 1 | 4 | 1 |
| English and History (Moderns) | 17 | 14 | 8 | 12 |
| English and History (Classics) | 3 | 2 | 2 | 3 |
| Moderns | 22 | 19 | 17 | 18 |
| Modern History | 4 | 1 | ..... | ..... |
| Mathematics and Physics | 6 | 3 | 3 | 4 |
| Household Science | 3 | ..... | 13 | 10 |
| Household Science (General) | 19 | 10 | 10 | ..... |
| Science | 6 | ..... | ..... | ..... |
| Biological and Physical Sciences | ..... | 2 | ..... | ..... |
| Biology | ..... | 3 | 1 | ..... |
| Geology and Mineralogy | ..... | ..... | 1 | ..... |
| Physiological and Biochemical Sciences | ..... | ..... | 1 | 1 |
| Totals | 118 | 91 | 84 | 81 |

The women students registered in Victoria College took the following courses:

| Courses. | First Year. | Second Year. | Third Year. | Fourth Year. |
|---|---|---|---|---|
| General | 11 | 18 | 16 | 12 |
| Moderns and English and History | 18 | 9 | 7 | 6 |
| Classics and English and History | 7 | 1 | ..... | 2 |
| Modern History | 3 | ..... | ..... | 1 |
| Mathematics and Physics | 3 | ..... | ..... | 1 |
| Natural and Physical Sciences | 7 | ..... | 1 | 2 |
| Household Science | ..... | 1 | 4 | ..... |
| Household Science (General) | 18 | 10 | 5 | 10 |
| Philosophy | ..... | 1 | ..... | ..... |
| Totals | 67 | 40 | 33 | 34 |

The women students registered in Trinity College took the following courses:

| Courses. | First Year. | Second Year. | Third Year. | Fourth Year. |
|---|---|---|---|---|
| General | 9 | 6 | 3 | 3 |
| Modern Languages | ..... | 1 | ..... | 3 |
| English and History (Moderns) | 3 | 4 | 2 | ..... |
| English and History (Classics) | 1 | ..... | 1 | ..... |
| Modern History | ..... | ..... | ..... | 1 |
| Classics | ..... | ..... | 1 | ..... |
| Philosophy | ..... | ..... | ..... | 1 |
| Household Science | 6 | ..... | 4 | ..... |
| Mathematics and Physics | 1 | 1 | ..... | ..... |
| Totals | 20 | 12 | 11 | 8 |

The women students registered in St. Michael's College took the following courses:

| Courses. | First Year. | Second Year. | Third Year. | Fourth Year. |
|---|---|---|---|---|
| General | 18 | 7 | 8 | 3 |
| Modern Languages | 2 | 3 | ..... | 2 |
| English and History (Moderns) | 1 | ..... | 1 | 1 |
| Classics | 2 | ..... | ..... | ..... |
| Totals | 23 | 10 | 9 | 6 |

The women in the Faculty of Medicine were enrolled as follows:

| | |
|---|---|
| First Year | 8 |
| Second Year | 11 |
| Third Year | 7 |
| Fourth Year | 5 |
| Fifth Year | 5 |
| | 36 |

The women in the Faculty of Household Science took the following courses:

| | |
|---|---|
| Department of Education | 31 |
| Occasional students | 26 |
| | 57 |

The women in the Faculty of Education took the following courses:

| | |
|---|---|
| Advanced Course | 4 |
| General Course | 232 |
| Household Science | 31 |
| | 277 |

(5) Registration for Graduate Courses.

| | M.A. | Ph.D. |
|---|---|---|
| Department of Classics | 7 | .... |
| " Oriental Languages | 5 | 1 |
| " English | 3 | 1 |
| " French | 2 | 1 |
| " Italian and Spanish | 1 | 1 |
| " History | 13 | .... |
| " Political Science | 7 | 1 |
| " Philosophy | 15 | 7 |
| " Mathematics | 4 | 1 |
| " Physics | 5 | 5 |
| " Chemistry | 6 | 6 |
| " Mineralogy | ..... | 2 |
| " Biochemistry | 2 | .... |
| " Physiology | 1 | .... |
| " Botany | 1 | 3 |
| " Astro-Physics | 1 | .... |
| Total | 73 | 29 |

# APPENDIX C.

## Results of Examinations.

(1) Faculty of Arts.
(2) Faculty of Medicine.
(3) Faculty of Applied Science.
(4) Faculty of Forestry.
(5) Faculty of Education.

## RESULTS OF EXAMINATIONS IN APRIL, 1916.

### (1) Faculty of Arts.

*Senior Matriculation.*

| Courses. | University. | Univ. Coll. | Vic. Coll. | Trin Coll. | St. M. Coll. | Totals. | Passed. | Granted standing on account of Mil. Service. | Starred. | Failed. | Transfer'd. | Aegrotat. | Deferred. | Debarred. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General | .... | 28 | 19 | 5 | 38 | 90 | 27 | 11 | 40 | 12 | .... | .... | .... | 44 |
| Supplementals | .... | 3 | 5 | .... | 2 | 10 | 5 | 1 | 4 | .... | .... | .... | .... | .... |
| Gen. Course (House. Sc.) | .... | 2 | 6 | .... | .... | 8 | 2 | ..... | 3 | 3 | .... | .... | .... | .... |
| Classics | .... | .... | .... | .... | 1 | 1 | 1 | ..... | .... | .... | 1 | .... | .... | 3 |
| Eng. and Hist. (Cl.) | .... | .... | .... | .... | .... | .... | .... | ..... | .... | .... | .... | .... | .... | .... |
| Greek and Hebrew | .... | .... | .... | .... | .... | .... | .... | ..... | .... | .... | .... | .... | .... | .... |
| Moderns | .... | 5 | .... | .... | 1 | 6 | 2 | ..... | 4 | .... | 3 | .... | 1 | 2 |
| English and Hist.(Mod.) | .... | 1 | 2 | .... | .... | 3 | .... | ..... | 3 | .... | 3 | .... | .... | 1 |
| Modern History | .... | .... | .... | .... | .... | .... | .... | ..... | .... | .... | .... | .... | .... | .... |
| Political Science | .... | 1 | 2 | .... | .... | 3 | 1 | 2 | .... | .... | .... | .... | .... | 1 |
| Commerce and Finance | .... | 1 | 1 | .... | .... | 2 | 1 | ..... | 1 | .... | 1 | .... | .... | 2 |
| Math. and Phys | .... | 1 | 1 | .... | .... | 2 | 2 | ..... | .... | .... | .... | .... | .... | .... |
| Natural Science | .... | 3 | 1 | 1 | .... | 5 | 3 | ..... | 2 | .... | 1 | .... | .... | 3 |
| Arts and Forestry | .... | .... | .... | .... | .... | .... | .... | ..... | .... | .... | .... | .... | .... | .... |
| Occasionals | 9 | .... | .... | .... | .... | 9 | 6 | ..... | .... | 3 | .... | .... | .... | .... |
| **Totals** | 9 | 45 | 37 | 6 | 42 | 139 | 50 | 14 | 57 | 18 | 9 | .... | 1 | 56 |

*First Year.*

| Courses. | University. | Univ. Coll. | Vic. Coll. | Trin. Coll. | St. M. Coll. | Totals. | Passed. | Granted standing on account of Mil.Service. | Starred. | Failed. | Transfer'd. | Aegrotat. | Deferred. | Debarred. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General | .... | 74 | 19 | 11 | 28 | 133 | 67 | 16 | 41 | 9 | .... | .... | .... | 13 |
| Supplementals | .... | 6 | 9 | 3 | 5 | 22 | 14 | 2 | 6 | .... | .... | .... | .... | .... |
| Gen. Course (House.Sc.) | .... | 16 | 10 | 1 | .... | 27 | 13 | ..... | 13 | 1 | 1 | .... | .... | 8 |
| Classics | .... | 6 | 6 | 2 | 2 | 16 | 12 | 3 | 1 | .... | 1 | .... | .... | .... |
| Eng. and Hist. (Class.) | .... | 6 | 7 | 1 | 1 | 15 | 11 | ..... | 4 | .... | 4 | .... | .... | .... |
| Greek and Hebrew | .... | .... | .... | .... | .... | .... | .... | ..... | .... | .... | .... | .... | .... | 1 |
| Moderns | .... | 26 | 14 | .... | 2 | 42 | 32 | 1 | 9 | .... | 9 | 1 | .... | .... |
| Eng. and Hist. (Mod.) | .... | 12 | 8 | 3 | .... | 23 | 19 | 1 | 1 | 2 | 6 | .... | .... | .... |
| Modern History | .... | 10 | 3 | .... | 1 | 14 | 10 | ..... | 4 | .... | 1 | .... | .... | .... |
| Political Science | .... | 16 | 4 | 1 | 1 | 22 | 11 | 8 | 3 | .... | 1 | .... | .... | .... |
| Commerce and Finance | .... | 6 | 4 | .... | .... | 10 | 4 | ..... | 5 | 1 | 4 | .... | .... | .... |
| Math. and Phys. | .... | 24 | 8 | 1 | .... | 33 | 22 | 6 | 5 | .... | 6 | .... | .... | 1 |
| Natural Science | .... | 21 | 18 | 5 | .... | 44 | 32 | 7 | 4 | 1 | 2 | 1 | .... | 2 |
| Arts and Forestry | .... | .... | .... | .... | .... | .... | .... | ..... | .... | .... | .... | .... | .... | .... |
| Occasionals | .... | 3 | 3 | .... | .... | 6 | 5 | ..... | 1 | .... | .... | .... | .... | .... |
| **Totals** | .... | 226 | 113 | 28 | 40 | 407 | 252 | 44 | 97 | 14 | 35 | 2 | .... | 25 |

*Second Year.*

| Courses. | University. | Univ. Coll. | Vic. Coll. | Trin. Coll. | St. Michael's College. | Totals. | Passed | Granted standing on account of Military Service. | Starred. | Failed. | Transfer'd. | Aegrotat. | Deferred. | Debarred. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General | | 58 | 31 | 6 | 19 | 114 | 49 | 14 | 42 | 9 | .... | .. | .. | 19 |
| Supplementals | .... | 25 | 17 | 1 | 5 | 48 | 38 | 6 | 4 | .... | .... | .. | .. | .. |
| General Course (House Sc.) | .... | 11 | 9 | .... | .... | 20 | 15 | ..... | 5 | .... | .... | .. | .. | 2 |
| Classics | .... | 4 | 2 | .... | 1 | 7 | 3 | 2 | 2 | .... | 1 | .. | .. | 1 |
| English and History (Cl.) | .... | 3 | 1 | 1 | .... | 5 | 3 | 2 | .... | .... | .... | .. | .. | .. |
| Orientals (Greek Option) | .... | 1 | .... | .... | .... | 1 | 1 | ..... | .... | .... | .... | .. | .. | .. |
| Moderns | .... | 24 | 9 | 1 | 2 | 36 | 28 | 2 | 5 | 1 | 3 | 2 | .. | 3 |
| English and History (Mod.) | .... | 12 | 6 | 5 | .... | 23 | 20 | 2 | 1 | .... | .... | 2 | .. | .. |
| Modern History | .... | 2 | 2 | 1 | .... | 5 | 3 | 1 | .... | 1 | .... | .. | .. | .. |
| Political Science | .... | 21 | 5 | 1 | .... | 27 | 13 | 7 | 1 | 6 | .... | 1 | .. | .. |
| Commerce and Finance | .... | 4 | .... | 1 | .... | 5 | 2 | 3 | .... | .... | .... | .. | .. | .. |
| Philosophy | .... | 13 | 12 | 1 | .... | 26 | 4 | 10 | 12 | .... | .... | .. | 2 | 2 |
| Mathmetics and Physics | .... | 14 | 9 | 1 | .... | 24 | 12 | 4 | 5 | 3 | .... | .. | 2 | 2 |
| Physics | .... | .... | .... | .... | .... | .... | .... | ..... | .... | .... | .... | .. | .. | .. |
| Biology | .... | 6 | .... | .... | .... | 6 | 5 | ..... | 1 | .... | .... | .. | .. | .. |
| Geology and Mineralogy | .... | .... | .... | .... | .... | .... | .... | ..... | .... | .... | .... | .. | .. | .. |
| Chemistry and Mineralogy | .... | 9 | 1 | 1 | .... | 11 | 7 | 2 | .... | 2 | .... | .. | .. | .. |
| Biological and Physical Scs. | .... | 1 | .... | .... | .... | 1 | 1 | ..... | .... | .... | .... | .. | .. | .. |
| Physiol. and Biochem. Scs. | .... | 4 | 1 | .... | 1 | 6 | 3 | 2 | 1 | .... | .... | .. | .. | .. |
| Household Science | .... | .... | 1 | .... | .... | 1 | 1 | ..... | .... | .... | .... | .. | .. | .. |
| Arts and Forestry | .... | 1 | .... | .... | .... | 1 | .... | 1 | .... | .... | .... | .. | .. | .. |
| Occasionals | 12 | 4 | 1 | .... | .... | 17 | 14 | ..... | .... | 3 | .... | .. | .. | .. |
| Totals | 12 | 217 | 107 | 20 | 28 | 384 | 222 | 58 | 79 | 25 | 4 | 5 | 4 | 29 |

*Third Year.*

| Courses. | University. | Univ. Coll. | Vic. Coll. | Trin. Coll. | St. Michael's College | Totals | Passed. | Granted standing on account of Military service. | Starred. | Failed. | Transfer'd | Aegrotat. | Deferred. | Debarred. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General | .... | 56 | 40 | 7 | 20 | 123 | 68 | 18 | 28 | 9 | .... | .. | .. | 8 |
| Supplementals | .... | 23 | 7 | .... | 2 | 32 | 17 | 8 | 7 | .... | .... | .. | .. | .. |
| General Course (House. Sc.) | .... | 10 | 5 | .... | .... | 15 | 10 | ..... | 5 | .... | .... | .. | .. | 1 |
| Classics | .... | 5 | 5 | 2 | .... | 12 | 10 | 2 | .... | .... | .... | 2 | .. | .. |
| English and History (Cl.) | .... | 3 | 3 | 1 | .... | 7 | 3 | 4 | .... | .... | .... | .. | .. | .. |
| Orientals | .... | .... | 1 | .... | .... | 1 | 1 | ..... | .... | .... | .... | .. | .. | .. |
| Greek and Hebrew | .... | .... | .... | .... | .... | .. | .... | ..... | .... | .... | .... | .. | .. | .. |
| Moderns | .... | 19 | 8 | .... | .... | 27 | 25 | ..... | 2 | .... | .... | 2 | .. | .. |
| English and History (Mod.) | .... | 7 | 1 | 2 | 1 | 11 | 10 | ..... | 1 | .... | .... | 1 | .. | .. |
| Modern History | .... | .... | 1 | .... | .... | 1 | 1 | ..... | .... | .... | .... | .. | .. | .. |
| Political Science | .... | 10 | 5 | .... | .... | 15 | 4 | 7 | 3 | 1 | .... | 1 | .. | .. |
| Commerce and Finance | .... | 3 | 3 | .... | .... | 6 | 5 | ..... | 1 | .... | .... | .. | .. | .. |
| Philosophy | .... | 6 | 5 | .... | 7 | 18 | 11 | 4 | 3 | .... | .... | .. | .. | .. |
| Mathmetics and Physics | .... | 14 | 6 | .... | .... | 20 | 14 | 4 | .... | 2 | .... | .. | .. | .. |
| Physics | .... | 2 | .... | .... | .... | 2 | .... | 2 | .... | .... | .... | .. | .. | .. |
| Biology | .... | 1 | 1 | .... | .... | 2 | 2 | ..... | .... | .... | .... | .. | .. | .. |
| Geology and Mineralogy | .... | 2 | 1 | .... | .... | 3 | 1 | ..... | 2 | .... | .... | 1 | .. | 1 |
| Chemistry and Mineralogy I. | .... | 3 | .... | .... | .... | 3 | 2 | ..... | 1 | .... | .... | .. | .. | .. |
| Chemistry and Mineralogy II | .... | 1 | 1 | .... | .... | 2 | 1 | 1 | .... | .... | .... | .. | .. | .. |
| Biological and Physical Scs. | .... | 3 | 2 | .... | .... | 5 | 3 | 1 | 1 | .... | .... | .. | .. | .. |
| Physiol. and Biochem. Scs. | .... | 2 | 2 | .... | .... | 4 | 3 | 1 | .... | .... | .... | .. | .. | .. |
| Household Science | .... | 8 | 4 | 4 | .... | 16 | 15 | ..... | 1 | .... | .... | .. | .. | .. |
| Phys. and Household Sc. | .... | .... | .... | .... | .... | .... | .... | ..... | .... | .... | .... | .. | .. | .. |
| Arts and Forestry | .... | .... | .... | .... | .... | .... | .... | ..... | .... | .... | .... | .. | .. | .. |
| Occasionals | .... | 3 | 1 | .... | .... | 4 | 4 | ..... | .... | .... | .... | .. | .. | .. |
| Totals | .... | 181 | 102 | 16 | 30 | 329 | 210 | 52 | 55 | 12 | .... | 7 | .. | 10 |

*Fourth Year.*

| Courses. | University. | Univ. Coll. | Vic. Coll. | Trin. Coll. | St. Michael's College. | Totals. | Passed. | Granted standing on acct. of Military Service. | Starred. | Failed. | Transferred. | Aegrotat. | Deferred. | Pass Deg. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General | .. | 68 | 30 | 11 | 6 | 115 | 69 | 28 | 17 | 1 | .. | .... | .. | .... |
| Supplementals | .. | 6 | 1 | .... | 1 | 8 | 6 | ..... | 2 | .... | .. | .... | .. | .... |
| Classics | .. | 5 | 2 | .... | .... | 7 | 4 | 3 | .... | .... | .. | .... | .. | .... |
| English and History (Cl.) | .. | 5 | 2 | .... | .... | 7 | 4 | 3 | .... | .... | .. | .... | .. | .... |
| Greek and Hebrew | .. | .... | .... | .... | .... | .... | .... | ..... | .... | .... | .. | .... | .. | .... |
| Orientals | .. | .... | 4 | .... | .... | 4 | 3 | 1 | .... | .... | .. | .... | .. | .... |
| Moderns | .. | 19 | 7 | 3 | 2 | 31 | 28 | 1 | 2 | .... | .. | .... | 1 | .... |
| English and History (Mod.) | .. | 11 | 4 | .... | 1 | 16 | 14 | 2 | .... | .... | .. | .... | .. | .... |
| Modern History | .. | .... | .... | 1 | .... | 1 | 1 | ..... | .... | .... | .. | .... | .. | .... |
| Political Science | .. | 10 | 7 | 1 | .... | 18 | 5 | 11 | 2 | .... | .. | .... | .. | .... |
| Commerce and Finance | .. | 1 | 6 | .... | .... | 7 | 1 | 6 | .... | .... | .. | .... | .. | .... |
| Philosophy | .. | 5 | 2 | 2 | 7 | 16 | 11 | 3 | 2 | .... | .. | 1 | .. | .... |
| Mathem. and Physics — Mathematics | .. | 8 | .... | .... | .... | 8 | 6 | 1 | 1 | .... | .. | .... | .. | .... |
| Mathem. and Physics — Physics | .. | 4 | 2 | .... | .... | 6 | 5 | 1 | .... | .... | .. | .... | .. | .... |
| Mathem. and Physics — Astro. & Physics | .. | 3 | .... | .... | .... | 3 | 2 | 1 | .... | .... | .. | .... | .. | .... |
| Physics | .. | 1 | 1 | .... | .... | 2 | 1 | 1 | .... | .... | .. | .... | .. | .... |
| Biology | .. | 2 | 2 | .... | .... | 4 | 3 | 1 | .... | .... | .. | .... | .. | .... |
| Geology and Mineralogy | .. | .... | .... | .... | .... | .... | .... | ..... | .... | .... | .. | .... | .. | .... |
| Chem. and Mineralogy I. | .. | 3 | 2 | .... | .... | 5 | 3 | 2 | .... | .... | .. | .... | .. | .... |
| Chem. and Mineralogy II. | .. | .... | .... | .... | .... | .... | .... | ..... | .... | .... | .. | .... | .. | .... |
| Biol. and Phys. Sciences | .. | 1 | 2 | .... | .... | 3 | 3 | ..... | .... | .... | .. | .... | .. | .... |
| Physiol. and Biochem. Scs. | .. | 9 | 2 | .... | .... | 11 | 11 | ..... | .... | .... | .. | .... | .. | .... |
| Household Science | .. | 10 | 8 | .... | .... | 18 | 17 | ..... | 1 | .... | .. | .... | .. | .... |
| Physiol. and Household Sc. | .. | .... | 2 | .... | .... | 2 | 2 | ..... | .... | .... | .. | .... | .. | .... |
| Arts and Forestry | .. | 1 | .... | .... | .... | 1 | .... | 1 | .... | .... | .. | .... | .. | .... |
| Occasionals | .. | 1 | .... | .... | .... | 1 | 1 | ..... | .... | .... | .. | .... | .. | .... |
| Totals | .. | 173 | 86 | 18 | 17 | 294 | 200 | 66 | 27 | 1 | .. | 1 | 1 | .... |

## (2) Faculty of Medicine.

| — | Passed. | Granted standing on account of Military Service. | Starred. | Failed. |
|---|---|---|---|---|
| First Year | 64 | 28 | 6 | 11 |
| Second Year | 53 | 9 | 7 | 2 |
| Third Year | 37 | 7 | 45 | 1 |
| Fourth Year | 67 | ..... | 3 | ..... |
| Fifth Year | 85 | ..... | 10 | 1 |

## (3) Faculty of Applied Science.

| — | Passed with Honours. | Passed. | Granted standing on account of Mil. Service. | Starred. | Failed. |
|---|---|---|---|---|---|
| First Year: | | | | | |
| Civil Engineering | 8 | 4 | 8 | 6 | 2 |
| Mining Engineering | ..... | ..... | 1 | 1 | ..... |
| Mechanical Engineering | 6 | 1 | 1 | ..... | ..... |
| Architecture | ..... | 1 | 1 | ..... | ..... |
| Analytical & Applied Chemistry | 3 | 2 | 1 | 1 | 1 |
| Chemical Engineering | ..... | ..... | 1 | ..... | ..... |
| Electrical Engineering | 11 | 7 | 7 | 4 | 2 |
| Metallurgical Engineering | ..... | 1 | ..... | 1 | ..... |
| Second Year: | | | | | |
| Civil Engineering | 4 | 8 | 9 | 5 | 2 |
| Mining Engineering | ..... | 1 | ..... | ..... | ..... |
| Mechanical Engineering | 1 | 2 | 1 | 2 | ..... |
| Architecture | ..... | 1 | 2 | ..... | ..... |
| Analytical & Applied Chemistry | ..... | ..... | 2 | ..... | ..... |
| Chemical Engineering | ..... | 1 | 2 | 1 | ..... |
| Electrical Engineering | 4 | 4 | 4 | 1 | ..... |
| Metallurgical Engineering | ..... | ..... | ..... | ..... | ..... |
| Third Year: | | | | | |
| Civil Engineering | 9 | 6 | 16 | 5 | ..... |
| Mining Engineering | 1 | ..... | 1 | 2 | ..... |
| Mechanical Engineering | 1 | 1 | 1 | 4 | ..... |
| Architecture | 2 | 1 | ..... | 1 | ..... |
| Analytical and Applied Chemistry | 2 | ..... | ..... | 1 | ..... |
| Chemical Engineering | ..... | 2 | ..... | 1 | ..... |
| Electrical Engineering | 3 | 5 | 2 | 5 | 1 |
| Fourth Year: | | | | | |
| Civil Engineering | 10 | 9 | 12 | ..... | ..... |
| Mining Engineerng | 1 | ..... | ..... | ..... | ..... |
| Mechanical Engineering | 1 | 5 | 2 | 1 | ..... |
| Architecture | 1 | ..... | 1 | ..... | ..... |
| Analytical & Applied Chemistry | 4 | ..... | ..... | ..... | ..... |
| Chemical Engineering | 1 | ..... | 1 | 1 | ..... |
| Electrical Engineering | 5 | 7 | 2 | 1 | ..... |
| Metallurgical Engineering | 1 | ..... | ..... | ..... | ..... |

## (4) Faculty of Forestry.

| — | Passed. | Granted standing on account of Mil. Service. | Honours Deferred. | Failed. |
|---|---|---|---|---|
| First Year | ..... | 1 | ..... | ..... |
| Second Year | 3 | 4 | 6* | ..... |
| Third Year | 5 | 1 | ..... | ..... |
| Fourth Year | 2 | 6 | 1* | ..... |
| Forestry and Arts: | | | | |
| First Year | ..... | ..... | ..... | ..... |
| Second Year | ..... | 1 | ..... | ..... |
| Third Year | ..... | ..... | ..... | ..... |
| Fourth Year | ..... | 1 | ..... | ..... |
| Fifth Year | ..... | 1 | ..... | ..... |
| Sixth Year | ..... | ..... | ..... | ..... |

* Withdrew before end of term.

## (5) Faculty of Education.

| — | Passed with Honours. | Passed. | Failed. |
|---|---|---|---|
| General Course | 20 | 275 | ..... |
| Advanced Courses | 1 | 4 | ..... |
| *Specialists | ..... | 41 | ..... |
| Household Science | ..... | 28 | ..... |
| Inspectors' Course | ..... | 1 | ..... |
| B. Pæd | ..... | 1 | ..... |
| D. Pæd | ..... | 1 | ..... |
| B. Pæd (passed in part) | ..... | ..... | ..... |
| D. Pæd (passed in part) | ..... | 18 | ..... |
| Number who failed in whole or part | ..... | ..... | 28 |

* Many of these are included among those who passed in the General or Advanced Courses

# APPENDIX D.

## Geographical Distribution of Students.

The geographical distribution of students is as follows:

### FACULTY OF ARTS.

| | University of Toronto. | University College. | Victoria College. | Trinity College. | St. Michael's College. | Total |
|---|---|---|---|---|---|---|
| Ontario: (1) Province | 108 | 443 | 300 | 62 | 87 | 1,000 |
| (2) Toronto | 57 | 384 | 112 | 21 | 48 | 622 |
| Nova Scotia | 4 | 2 | 1 | ..... | 1 | 8 |
| New Brunswick | 3 | 1 | ..... | ..... | ..... | 4 |
| Prince Edward Island | 1 | 2 | 1 | 1 | ..... | 5 |
| Quebec | 6 | 3 | 4 | ..... | 1 | 14 |
| Manitoba | 10 | 6 | 2 | 2 | ..... | 20 |
| Saskatchewan | 12 | 15 | 15 | 2 | ..... | 44 |
| Alberta | 6 | 13 | 7 | ..... | ..... | 26 |
| British Columbia | 1 | 10 | 5 | 3 | ..... | 19 |
| Yukon | ..... | 1 | ..... | ..... | ..... | 1 |
| United States | 20 | 11 | 1 | 2 | 3 | 37 |
| Elsewhere | 7 | 23 | 23 | ..... | ..... | 53 |
| Totals | 235 | 914 | 471 | 93 | 140 | 1,853 |

### SUMMARY.

| | Faculty of Arts. | Faculty of Medicine. | Faculty of Applied Science. | Faculty of Education. | Faculty of Forestry. | Faculty of Household Science. | Department of Social Service. | Summer Session. | Totals. |
|---|---|---|---|---|---|---|---|---|---|
| Ontario: | | | | | | | | | |
| (1) Province | 1,000 | 315 | 183 | 352 | 17 | 6 | 89 | 238 | 2,200 |
| (2) Toronto | 622 | 174 | 134 | 70 | 9 | 20 | 142 | 107 | 1,278 |
| Nova Scotia | 8 | 3 | 1 | 1 | ..... | ..... | 5 | ..... | 18 |
| New Brunswick | 4 | 1 | ..... | ..... | ..... | ..... | 1 | ..... | 6 |
| Prince Edward Island | 5 | ..... | ..... | ..... | ..... | ..... | 1 | ..... | 6 |
| Quebec | 14 | ..... | 5 | 2 | 1 | ..... | 3 | 5 | 30 |
| Manitoba | 20 | 1 | ..... | 1 | 2 | ..... | 2 | ..... | 26 |
| Saskatchewan | 44 | 13 | 5 | 4 | ..... | ..... | 2 | ..... | 68 |
| Alberta | 26 | 10 | 3 | 6 | 2 | ..... | 2 | ..... | 49 |
| British Columbia | 19 | 5 | 6 | 1 | ..... | ..... | ..... | ..... | 31 |
| Yukon | 1 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | 2 |
| United States | 37 | 4 | 5 | ..... | ..... | ..... | 1 | 2 | 49 |
| Elsewhere | 53 | 3 | 3 | ..... | 1 | ..... | 4 | 1 | 65 |
| Occasionals | ..... | 87 | ..... | ..... | ..... | ..... | ..... | ..... | 57 |
| Totals | 1,853 | 617 | 345 | 437 | 32 | 26 | 252 | 353 | 3,915 |
| Less duplicate registration | | | | | | | | | 47 |
| | | | | | | | | | 3,868 |

The students from the Province of Ontario are distributed as follows:

| County. | Faculty of Arts. | Faculty of Medicine. | Faculty of Applied Science. | Faculty of Education. | Faculty of Forestry. | Faculty of Household Science. | Department of Social Service. | Summer Session. | Totals. |
|---|---|---|---|---|---|---|---|---|---|
| Algoma | 7 | 6 | 2 | 2 | ..... | ..... | 1 | 5 | 23 |
| Brant | 20 | 4 | 4 | 6 | ..... | ..... | 1 | 18 | 53 |
| Bruce | 32 | 13 | 3 | 17 | 1 | ..... | 4 | 5 | 75 |
| Carleton | 35 | 3 | 6 | 1 | 2 | 1 | 2 | 3 | 53 |
| Dufferin | 8 | 6 | ..... | 4 | ..... | ..... | 1 | 5 | 24 |
| Dundas | 9 | 1 | 1 | 4 | ..... | ..... | 1 | 1 | 17 |
| Durham | 15 | 1 | 3 | 6 | 1 | ..... | 2 | 2 | 30 |
| Elgin | 23 | 10 | ..... | 10 | ..... | ..... | ..... | 1 | 44 |
| Essex | 23 | 11 | 6 | 6 | ..... | ..... | 1 | 5 | 52 |
| Frontenac | 2 | 1 | ..... | ..... | 1 | ..... | ..... | 4 | 8 |
| Glengarry | 2 | 1 | ..... | 1 | ..... | ..... | ..... | ..... | 4 |
| Grenville | 5 | 1 | ..... | 3 | ..... | ..... | 1 | 2 | 12 |
| Grey | 41 | 19 | 8 | 15 | ..... | 1 | 1 | 12 | 97 |
| Haldimand | 9 | 3 | 2 | 7 | ..... | ..... | 2 | 1 | 24 |
| Haliburton | 1 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | 2 |
| Halton | 18 | 11 | ..... | 6 | ..... | ..... | 1 | ..... | 36 |
| Hastings | 18 | 6 | 3 | 8 | ..... | ..... | 5 | 3 | 43 |
| Huron | 36 | 16 | 7 | 24 | 1 | ..... | 7 | 6 | 97 |
| Kent | 17 | 11 | 5 | 10 | ..... | ..... | ..... | 7 | 50 |
| Lambton | 24 | 15 | 4 | 9 | 1 | ..... | ..... | 2 | 55 |
| Lanark | 18 | 2 | 6 | 4 | 1 | ..... | 2 | 8 | 41 |
| Leeds | 8 | 3 | 1 | 1 | ..... | ..... | ..... | ..... | 13 |
| Lennox and Addington | 6 | 1 | ..... | 2 | ..... | ..... | 1 | ..... | 10 |
| Lincoln | 31 | 5 | 3 | 5 | ..... | ..... | 2 | 2 | 48 |
| Manitoulin | 3 | ..... | 1 | 1 | ..... | ..... | ..... | ..... | 5 |
| Middlesex | 47 | 10 | 15 | 24 | 1 | ..... | 8 | 18 | 123 |
| Muskoka | 4 | ..... | 1 | 3 | 1 | ..... | 2 | 1 | 12 |
| Nipissing | 11 | 3 | 3 | 4 | ..... | ..... | 2 | ..... | 23 |
| Norfolk | 12 | 4 | 3 | 5 | 1 | ..... | 2 | 4 | 31 |
| Northumberland | 14 | 8 | ..... | 3 | ..... | ..... | ..... | 4 | 29 |
| Ontario | 35 | 10 | 6 | 18 | ..... | 1 | 3 | 5 | 78 |
| Oxford | 23 | 7 | 8 | 12 | ..... | ..... | 5 | 2 | 57 |
| Parry Sound | 4 | 1 | ..... | 3 | ..... | ..... | ..... | 6 | 14 |
| Peel | 20 | 6 | 7 | 4 | 2 | ..... | 3 | 4 | 46 |
| Perth | 39 | 6 | 11 | 14 | ..... | ..... | 4 | 12 | 86 |
| Peterborough | 28 | 2 | 2 | 5 | 1 | ..... | 2 | 12 | 52 |
| Prescott | 3 | ..... | ..... | 1 | ..... | ..... | ..... | 2 | 6 |
| Prince Edward | 5 | 1 | 1 | 1 | ..... | ..... | 1 | 3 | 12 |
| Rainy River | 1 | 1 | ..... | ..... | ..... | ..... | ..... | ..... | 2 |
| Renfrew | 12 | 1 | 1 | 3 | ..... | ..... | 1 | 5 | 23 |
| Russell | ..... | ..... | ..... | 1 | ..... | ..... | 1 | 1 | 3 |
| Simcoe | 89 | 25 | 5 | 17 | ..... | 1 | 4 | 10 | 151 |
| Stormont | 4 | ..... | 1 | ..... | ..... | ..... | ..... | 4 | 9 |
| Sudbury | 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3 |
| Thunder Bay | 9 | 2 | 2 | 2 | ..... | ..... | ..... | ..... | 15 |
| Temiskaming | 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2 |
| Victoria | 23 | 5 | ..... | 8 | ..... | 1 | ..... | 7 | 44 |
| Waterloo | 16 | 11 | 6 | 10 | 2 | ..... | 4 | 5 | 54 |
| Welland | 16 | 13 | 2 | 4 | ..... | ..... | 1 | 5 | 41 |
| Wellington | 46 | 15 | 5 | 21 | ..... | ..... | 3 | 12 | 102 |
| Wentworth | 75 | 15 | 17 | 13 | ..... | ..... | 2 | 7 | 129 |
| York | 44 | 15 | 18 | 24 | 1 | 1 | 6 | 17 | 126 |
| Toronto | 622 | 174 | 131 | 70 | 9 | 20 | 142 | 107 | 1,275 |
| Totals | 1,618 | 486 | 310 | 422 | 26 | 26 | 231 | 345 | 3,464 |

## APPENDIX E.

### Publications by Members of the Staff.

### Faculty of Arts.

#### *Department of Botany.*

Walker, E. M.—"Notes on a Collection of Orthoptera from Prince Edward Island and the Magdalen Islands, Que." (Can. Ent., XLVII, 1915, pp. 339-344.)
"Aeshna umbrosa in Newfoundland." (Can. Ent., XLVII, 1915, p. 386.)
"Notes on Staurophlebia raticulata Burm." (Can. Ent., XLVII, 1915, pp. 387-395, pl. 17.)
"The nymph of Enallagma cyathigerum Charp." (Can. Ent., XLVIII., June, 1916.)
"Bibliography of Canadian Zoology (exclusive of Entomology)." (Trans. Royal Society of Canada, Series III., Vol. IX, Sec. IV, 1916, pp. 307-318.)

#### *Department of Chemistry.*

Allan, F. B.—"Orthobenzoyl-benzoyl Chloride." (In collaboration with H. C. Martin.) (Journal of the American Chemical Society, 38, 1916.)

#### *Department of Classics.*

Bell, A. J.—"Note on Catullus, 84." (Classical Review, August, 1915, 137-139 pp.)
"Horace and the Scholia." (Classical Review, November, 1915, 199-203 pp.)
Milner, W. S.—"Kennt Aristoteles die sogenannte tragische Katharsis ? von Heinrich Otte." (Classical Philology.)

#### *Department of English.*

Clark, A. F. B.—
"Robert d'Humières." (The Nation, New York, Dec. 23, 1915.)
"A Dialogue by Boileau." (Modern Language Notes, May, 1916.)
Kennedy, W. P. M.—"Wolfe and Gray's Elegy." (Canadian Magazine, Sept., 1915.)
"Dante." (American Quarterly Review, October, 1915).
"The Spirit of The Great Earls—an Irish Idyll." (Catholic World, May, 1916.)
"Richard Hakluyt—The Spirit of Our Race." (Canadian Magazine, April, 1916.)
Wallace, M. W.—"The Life of Sir Philip Sidney." (Cambridge University Press, 428 pp.)

#### *Department of French.*

Squair, J.—"A series of over 70 articles on subjects connected with the present war (which appeared in "The University Monthly," "The Weekly Sun," and the "Toronto News").

*Department of Geology.*

Coleman, A. P.—"Dry Land in Geology." (Presidential Address, Geological Society of America.)

"Discussion of Dr. Howe's article on Sudbury Nickel Deposits." (Economic Geology, No. 4, Vol. X.)

"Radio-activity and the Earth's Thermal History." (Geological Magazine, Decade VI, Vol. II, No. 612.)

Parks, W. A.—"Report on the Building and Ornamental Stones of Canada, Vol. IV, Manitoba, Saskatchewan and Alberta." (Mines Branch, Department of Mines, Ottawa, 325 pages, with numerous drawings and plates.)

"Summary Report on the Building and Ornamental Stones of Manitoba." (Summary Report, Mines Branch, Department of Mines for 1914.)

*Department of Modern History.*

Kennedy, W. P. M.—"Studies in Tudor History." (pp. 398. Constable & Co., London, 1916.)

Wrong, G. M.—"Elba: A Hundred Years After." (Transactions of the Royal Society of Canada, 1915, Series III, Vol. IX, pp. 205-222.)

"Canada: An Outline and Bibliography of Its History." (Published by the League of the Empire in the Federal Magazine, Dec., 1915, and Jan.-Feb., 1916.)

"The Chronicles of Canada." (In collaboration with Mr. H. H. Langton.)

"The Review of Historical Publications relating to Canada, Vol. XX." (Publications of the Year 1915.) (In collaboration with Mr. H. H. Langton and Mr. W. S. Wallace.)

Review of books in The American Historical Review.

"Outline of the Proposals of the Commission." (The Report of the Federal Plan Commission on a General Plan for the Cities of Ottawa and Hull, 1915.)

*Department of Italian and Spanish.*

Northup, G. T.—"The Influence of George Borrow upon Prosper Mérimée." (Modern Philology, July, 1915.)

*Department of Mathematics.*

Baker, Alfred.—"Canada's Intellectual Status and Intellectual Needs." (Presidential Address before the Royal Society of Canada, May, 1916.)

*Department of Mineralogy.*

Ellsworth, H. V.—"A Study of Certain Minerals from Cobalt, Ontario." (Report of Bureau of Mines, Toronto, 1916.)

Ledoux, A.—"Sur les propriétés géométriques des mélanges isomorphes. Application aux pyroxenes rhombiques et monocliniques." (Bull. Soc. Franc. de Mineralogie, 1916.)

"Les mineraux du district de Templeton." (Geological Survey of Canada, Ottawa.)

"Mineralogical Exploration of East Templeton District, Quebec." (Summary Report, Geological Survey of Canada, Ottawa, 1916.)

McNairn, W. H.—" The Growth of Etch Figures." (Royal Canadian Institute, 1916.)

Parsons, A. L.—" The Productive Area of the Michipicoten Iron Ranges." (Ontario Bureau of Mines, XXIV Annual Report, Part I, pp. 185-215.)

" Proustite from Cobalt, Ontario." (Mineralogical Magazine, Volume XVII, pp. 309-313.)

" Iron Deposits of Hunter Island with Notes on Gunflint Lake Region." (Ontario Bureau of Mines, XXV Annual Report.)

Walker, T. L.—" Spencerite, a new zinc phosphate from British Columbia." (Mineralogical Magazine.)

*Department of Philosophy.*

Abbott, A. H.—" Report of the Red Cross Fund for Ontario."

Brett, G. S.—" Chevalier, J.: La notion du nécessaire chez Aristotle." (Philosophical Review, XXV, Jan., 1916.)

Hume, J. G.—Short Articles and Reviews Referring to the War.

" Philosophy in Germany and Elsewhere." (The Westminster, July, 1915.)

" The Attitude of Americans." (The Globe, April 19th, 1916.)

" The United States and the Great War: Two Notable Books."

Reviews of " Fear God and Take Your Own Part," Theodore Roosevelt, and " The Greater Tragedy and Other Things," Benjamin Apthorp Gould. (The Globe, April 27th, 1916.)

" Discussion of ' Mirror Writing.' " (The Journal of the American Society for Psychical Research, Dec., 1915.)

*Department of Physics.*

McLennan, J. C.—" On the mobilities of ions in air at high pressures." In collaboration with D. A. Keys. (Phil. Mag., Oct., 1915; Can. Roy. Soc. Trans. Vol. IX, 1915.)

" Residual Ionisation in Gases." In collaboration with C. L. Treleaven. (Phil. Mag., Sept., 1915; Can. Royal Soc. Trans. Vol. IX, 1915.)

" On the Residual Ionisation in air enclosed in a vessel of ice." In collaboration with H. G. Murray. (Phil. Mag., Sept., 1915; Can. Roy. Soc. Trans., Vol. IX, 1915.)

" On the ionisation tracks of alpha rays in hydrogen." In collaboration with H. N. Mercer. (Phil. Mag., Nov., 1915; Can. Roy. Soc. Trans. Vol. IX, 1915.)

" On the ultraviolet spectrum of elementary silicon." In collaboration with E. Edwards. (Phil. Mag., Oct., 1915; Can. Roy. Soc. Trans. Vol. IX. 1915.)

" On the delta radiation emitted by zinc when bombarded by alpha rays." In collaboration with C. G. Found. (Phil. Mag., Oct., 1915; Can. Roy. Soc. Trans. Vol. IX, 1915.)

" On the infra-red emission spectrum of the mercury arc." In collaboration with R. C. Dearle. (Phil. Mag., Nov., 1915; Can. Roy. Soc. Trans. Vol. IX, 1915.)

" On the absorption spectra of mercury, cadmium, zinc and other metallic vapours." In collaboration with E. Edwards. (Phil. Mag., Nov., 1915.) (First Paper.)

"On the absorption spectra of mercury, cadmium, zinc and other metallic vapours." In collaboration with E. Edwards. (Can. Roy. Soc. Trans. Vol. IX, 1915.) (Second Paper.)

"Ionisation potentials of mercury, cadmium, zinc, and the single and many-lined spectra of these elements." In collaboration with J. P. Henderson. (Proc. Roy. Soc. A. Vol. 91, 1915.)

"On the single line spectra of magnesium and other metals and their ionising potentials." (First Paper.) (Proc. Roy. Soc. March, 1916.)

"On the single line spectra of magnesium and other metals and their ionising potentials.' (Second Paper.) (Journal, Franklin Institute, Feb., 1916.)

*Department of Political Science.*

Jackman, W. T.—"The Development of Transportation in Modern England." (2 vols., pp. XV, VII, 820. Cambridge University Press, Cambridge, England.)

Lefroy, A. H. F.—Articles in the Canadian Law Times.

MacIver, R. M.—"The Meaning of Nationality." (Sociological Review, July, 1915.)

"Personality and the supra-personal." (Philosophical Review, Nov., 1915.)

FACULTY OF MEDICINE.

*Department of Anatomy.*

McMurrich, J. P.—"The Place of Science in Education." (The School, Vol. 3, 1915.)

"Medical Ideals in the Ancient World." (The Canadian Med. Assoc. Journ., Vol. V, 1915.)

Watt, J. C.—"An Abnormal Frog's Heart, with Persisting Dorsal Mesocardium." (Anatomical Record, Vol. 9, No. 9, September, 1915.)

*Department of Gynæcology and Obstetrics.*

Cleland, F. A.—"The Attitude of the Gynæcologist to Cancer." (The Public Health Journal, Toronto.)

"Uterine Hemorrhage at and After the Menopause." (The Canadian Journal of Medicine and Surgery.)

MacMurchy, Helen.—"Tenth Annual Report on the Feeble-Minded for Ontario." (Report on Auxiliary Classes, 1916.)

*Department of Medicine.*

Brown, Alan.—"Some New Features in the Diagnosis of Scurvy, with Brief References to Metabolic Changes."

"Influenza Meningitis, with report of two cases."

"Duodenal Ulcers in Infancy."

"Protein Milk: Its composition, indications and results during one and a half year's experience in the Infants' Department of the Hospital for Sick Children."

"The Feeding Interval."

"Maternal Nursing: Present Status in Canada."

Ferguson, John.—"The Cancer Problem." (The Canadian Practitioner, July, 1915.)

"The Medical Commission." (The Canadian Practitioner, December, 1915, and the Canada Lancet, Nov., 1915.)

"Medical Practice as a Public Service." (The Can. Prac., Feb., 1916; the Can. Lancet, Feb., 1916.)

"The History of Medicine in Great Britain." (The Canada Lancet, May and June, 1916.)

"Christian Science Treatment." (The Canada Lancet, June, 1916.)

"Editorials in Canada Lancet." (From 1st of July, 1915, to 30th June, 1916.)

Loudon, J. D.—"A System of Case-Taking." In collaboration with Dr. G. W. Ross. (The Macmillan Company of Canada, Toronto, 1916.)

*Department of Ophthalmology.*

Burnham, G. H.—"The Operation Treatment of Acute Glaucoma." (Ophthalmic Record.)

"Some Unusual Features in the Case of a Senile Cataract Extraction." (Ophthalmic Record.)

*Department of Oto-Laryngology.*

Wishart, D. J. G.—"Animal Extracts in Rhinology and Otology." (Can. Med. Assoc. Journal, August, 1915.)

"The Tonsil Operation: An Inquiry into the Actual Results Obtained in a Series of Cases." (Annals of Otology, Rhinology, and Laryngology, Sept., 1915.)

"The Origin of the Naso Antral Polyp." (Canadian Medical Association Journal, Jan., 1916.)

"The Evolution of the Specialist in Oto-Laryngology." (The Laryngoscope, Jan., 1916.)

*Department of Pathological Chemistry.*

Hunter, A.—"Experiments upon the Fate of Ingested Sodium Nucleate in the Human Subject." In collaboration with M. H. Givens. (Journ. Biol. Chem. XXIII, p. 299.)

*Department of Physiology.*

Hartman, F. A.—"The Symptoms of Urinod Poisoning." (Archives of Internal Medicine, July, 1915, Vol. XVI, p. 98.)

"The Differential Effects of Adrenin on Splauchnic and Peripheral Arteries." (American Journal of Physiology, Oct., 1915, Vol. XXXVIII, p. 438.)

*Department of Surgery.*

Gallie, W. E.—"Tendon Fixation: Review of One Hundred Operations." (Annals of Surgery, October, 1915.)

"The Spinal Graft." (Journal of the American Orthopædic Assn., March, 1916.)

"Tendon Fixation: Observations Based on One Hundred and Fifty Operations." (Journal of the American Orthopædic Ass'n., Jan., 1916.)

"Open Operations for Fractures: An Experimental Study." (Canadian Journal of Medicine and Surgery, May, 1916.)

Primrose, A.—"The Physics of a Surgical Dressing, with special reference to the Harmful Effect of Using Impermeable Material over Septic Wounds." (British Medical Journal, Feb., 1916.)

"Disabilities, Including Injuries, caused by Bullets, Shrapnel, High Explosives, etc., as Illustrated by Cases Examined before a Medical Board at Canadian Headquarters, Shorncliffe, England." (Canadian Medical Association Journal, October, 1915.)

FACULTY OF APPLIED SCIENCE.

*Department of Mechanical Engineering.*

Arkley, L. M.—"Radiator Traps and Test Data." (The Power House, Toronto; Sanitary Engineer, Toronto, June, 1915; Applied Science, August, 1915; The National Engineer, Chicago, December, 1915; Heating and Ventilating Magazine of New York, Sept., 1915.)

Traill, J. J.—"Experiments on the Flow of Water through Sluiceways." In collaboration with N. E. D. Sheppard. (The Canadian Engineer, Sept. 2, 1915.)

*Department of Mining Engineering.*

King, J. T.—"The Calculation of Metallics' Problems." (Engineering and Mining Journal of New York, June, 1916.)

*Department of Surveying.*

Ransom, J. T.—"Balancing a Traverse Survey." (Annual Report of the Association of Ontario Land Surveyors.)

FACULTY OF FORESTRY.

Fernow, B. E.—"Co-operation in Forestry." (Commission of Conservation of Canada.)

"Silvicultural Problems of Canadian Forest Reserves." (Commission of Conservation of Canada; Forestry Quarterly, 1916, Vol. XIV, No. 1.)

"Professional Ethics." (Proc. of the Soc. American Foresters, 1916, Vol. XI, No. 1.)

"Suggestions in Regard to the Possibilities of Silviculture in America." (Proc. of the Soc. of American Foresters, 1916, Vol. XI, No. 2.)

Howe, C. D.—"The Reproduction of Commercial Species in the Southern Coastal Forests of British Columbia." (Commission of Conservation, Ottawa, 1915.)

Millar, W. N.—"Game Preservation in the Rocky Mountains Forest Reserve." (Department of the Interior, Canada, Dominion Forestry Branch Bulletin No. 51.)

"Forestry Investigations in Canada." (Forestry Quarterly, Vol. XIII, No. 4.)

"Brush Disposal in Alberta." (Forest Protection in Canada, 1913-1914; Commission of Conservation of Canada.)

FACULTY OF EDUCATION.

"The School," a magazine devoted to elementary and secondary education in Canada, published by the members of the Staff of the Faculty of Education.

Sandiford, P.—"Liberty in the School." (School and Society, 1, 19, pp. 657-660.)

"The Training of Teachers in England." (Proceedings, Ontario Educational Assn., 1915, pp. 279-284.)

"Health and Education." (The Child, VI, 4, pp. 178-187.)